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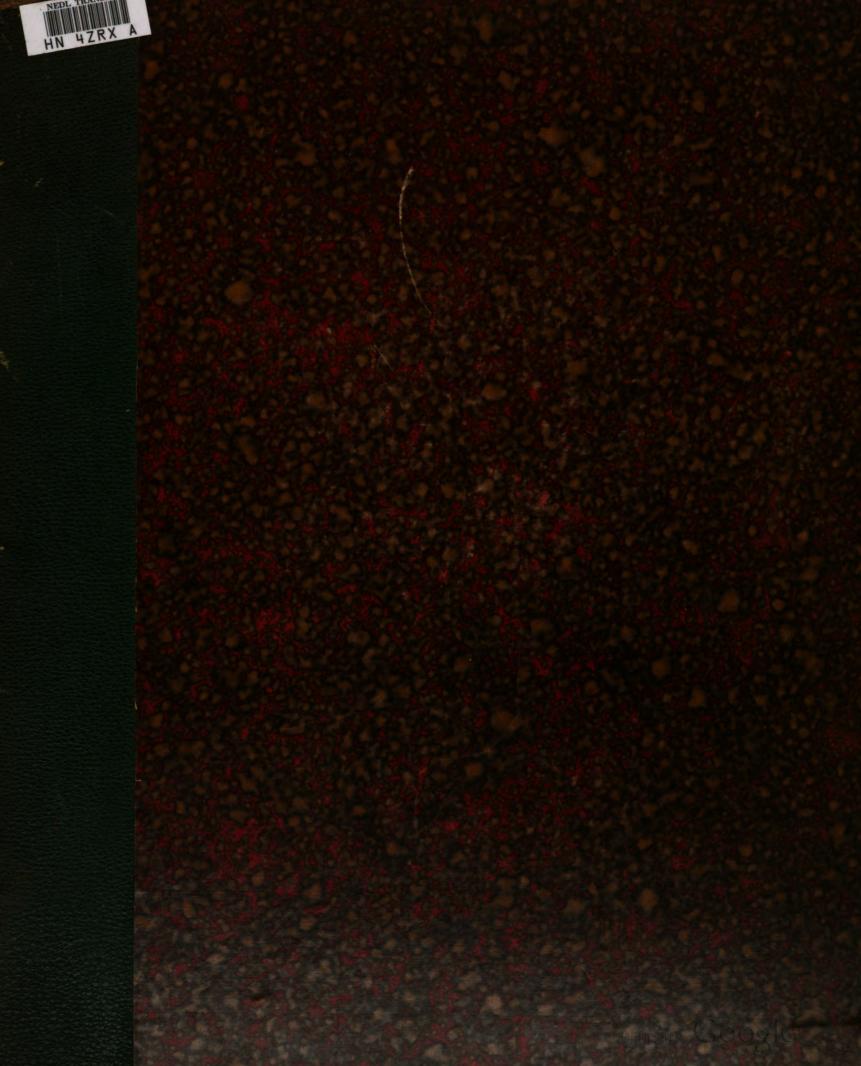
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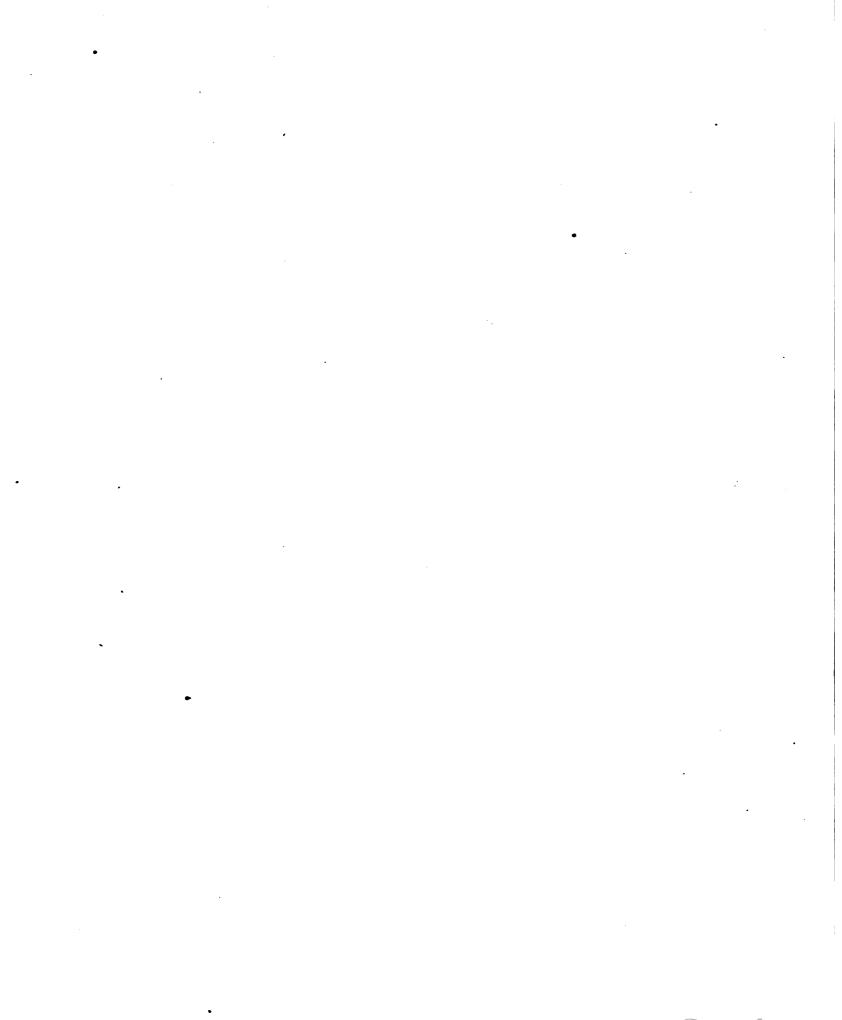
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50TH CONGRESS, 1st Session.	SENATE.	Ex. Doc. No 91.			
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LETTER

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FROM

THE SECRETARY OF WAR,

5-14-48

TRANSMITTING

LETTER OF THE CHIEF SIGNAL OFFICER

ON THE

RAIN-FALL OF THE PACIFIC SLOPE AND THE WESTERN STATES AND TERRITORIES.

FEBRUARY 27, 1888.—Ordered to be printed and laid upon the table.

WASHINGTON: GOVERNMENT PRINTING OFFICE. 1888.



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LETTER

FROM

THE SECRETARY OF WAR,

TRANSMITTING

Letter of the Chief Signal Officer on the rain-fall of the Pacific Slope and the Western States and Territories.

FEBRUARY 27, 1888.-Ordered to be printed and laid upon the table.

LETTER OF TRANSMITTAL.

WAR DEPARTMENT, Washington City, February 24, 1888.

The Secretary of War has the honor to transmit to the United States Senate a report of the 18th instant and accompanying charts, together with corresponding data, from the Chief Signal Officer of the Army, showing the maximum annual, the minimum annual, and the mean precipitation for each month of the year (all in rain-fall or melted snow) for Washington Territory, Oregon, Colorado, Idaho, Nevada, Utah, Arizona, California, Wyoming, New Mexico, Indian Territory, and Texas; the same being transmitted in response to Senate resolution of the 4th ultimo, directing the Chief Signal Officer to furnish the Senate with the charts and tables of rain-fall on the Pacific coast, and any report made thereon by any officer of the Signal Corps, and also similar data and information touching the same subject-matter in New Mexico, Texas, and Arizona, so far as obtained; and to express his views of the importance and value thereof.

WILLIAM C. ENDICOTT,

Secretary of War.

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The PRESIDENT PRO TEMPORE UNITED STATES SENATE.

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RAIN-FALL OF THE PACIFIC SLOPE AND THE WESTERN STATES AND TERRITORIES.

SIGNAL OFFICE, WAR DEPARTMENT, Washington City, February 18, 1888.

SIR: In compliance with the resolution of the Senate, dated January 4, 1888, I have the honor to herewith transmit fifteen charts, with corresponding data, showing the maximum annual, the minimum annual, and the mean precipitation for each month of the year (all in rain-fall or melted snow) for Washington Territory, Oregon, California, Idaho, Nevada, Utah, Arizona, Colorado, Wyoming, New Mexico, Indian Territory, and Texas.

Accompanying these charts is also a report of Second Lieut. W. A. Glassford, Signal Corps, bearing upon this subject. Lieutenant Glassford transmitted with his report, data from 372 stations, collated from Schott's Rain-fall Tables from the collection by Mr. Hall, the State engineer of California, from Signal Service reports, and obtained from voluntary observers in California and Oregon. Rain-fall data for 289 new stations have been added to these, while the data for the 372 stations have been largely supplemented, so that these charts and tables show, in the fullest and most accurate manner, all that is now known of the rain-fall in these twelve States and Territories.

Since over 80 per cent. of Lieutenant Glassford's original data has been modified by more or less material additions, and has been increased over 75 per cent. from the records of this office, it followed that his original charts were not satisfactory, as they did not cover a part of the new territory, and did not, with entire accuracy, show the conditions in the old territory. His charts have consequently been replaced by others deduced from the entire mass of accumulated rain-fall. The report of Lieutenant Glassford is submitted to the Senate exactly as it was received from that officer, and any very slight discrepancy which may exist between the text and charts may be attributed to the fact that Lieutenant Glassford was not in possession of much of the information now for the first time available.

Every source has been exhausted in the preparation of these data, which in most cases has been brought down to the 31st day of December, 1887. While the data from several of these Territories was not positively called for by the terms of the resolution, yet, in order to correctly draw the lines of equal rain-fall and to intelligently and properly show the relations of the Texas rainfall to that of Arizona and the Pacific region, it was necessary to fill in the data for the intervening regions of Idaho, Colorado, Nevada, Utah, Wyoming, and Indian Territory.

The charts show separately the mean rain-fall for each month and the year, besides indicating the maximum and minimum amount which has ever fallen in any year, as shown by the records of the various stations.



The following table shows the number of stations, together with the entire and average length of records for each State and Territory:

State or Territory.	Number of stations.	Total length for all stations in State.	Average length of record for each sta- tion.
Arizona	40	Yrs. Mos. 295 8	Yrs. Mos. 7 5
California		2,395 6	8 11.9
Colorado		156 9	38 64
Idaho	10	62 11	64 128
Indian Territory	. 8	101 0	12 8
Nevada	30	171 10	59
New Mexico		234 9	7 10
Oregon	38	214 1	58 55
Texas		650 10	
Utah	22	221 10	10 1
Washington	32	177 2	56
Wyoming	12	116 2	98
Total	661	4, 798 6	
Average			7 3
	1	1	1

The record aggregates 4,800 years for the 661 stations, giving an unexpected high average of seven years and three months to each station. It must be understood that the separate records vary, however, from two to forty years in length, and that it is impossible to determine with accuracy how far observations, even for long periods from the same station, are comparable. In charting the data upon the map, it was the original intention of the Chief Signal Officer to give greater weight to stations having the longer records; but unexpectedly it appeared that records of shorter length coincided very closely with the data from circumadjacent stations, so that it was deemed advisable to give almost equal weight to all records. While this might be considered a fault in some cases, yet it can hardly be thought so under these circumstances where the complete data has been in the hands of the Chief Signal Officer but less than a week, while the exact data on which the lines were drawn accompany the maps in the inclosed tables. The Chief Signal Officer in charting the data also refrained from drawing lines which had as a basis the topographical features of the country. While it is evident to him that the rain-fall of this region depends largely on the configuration of the country and on the elevation of the station, as compared with the average height of the surrounding country, yet he has not deemed it proper in documents of such great importance to substitute estimated value dependent on his personal and scientific opinions, for which data is wanting in certain extensive areas. Such a procedure on his part would have slightly changed some of these lines, which have now been drawn as accurately and faithfully as possible under a strict law of exact interpolation for regions with few rain-fall stations, and he believes that such a course will commend itself to practical men generally, since it gives the fullest weight to actual observations.

Moreover, if the lines do not seem satisfactory to meteorological students, the data are available from which to draw lines of rain-fall, modified according to their personal opinions as to the effect of forests, mountain ranges, valleys, and sandy waste.

The twelve States and Territories covered by these charts comprise nearly one-half the area of the United States (excluding Alaska), and to the inhabitants of each and all of them the question of rain-fall is one of the greatest interest and importance. But apart from the practical value which these data have for the four millions of people inhabiting these districts must be added the interests of the future millions who ultimately will settle in the so-called arid and subhumid regions. Private enterprise has wrought great changes in the West, but the day is fast approaching when the General Government will be obliged to define not only its general policy regarding the forests and rivers of this vast inland empire, but also pass upon the interstate question of irrigation, even if it does not give direct countenance and aid to this powerful means of increasing a thousand fold the present value of many millions of acres of unwatered land.

The Chief Signal Officer, without desiring in any way to enhance or exaggerate the importance of work collated through his subordinates, can not refrain from expressing the opinion that



without such data neither can Congress wisely legislate concerning the varied interests of the Territories, nor can the business enterprise of individuals or corporations safely and economically work out grand results for the arid regions without the data contained in these tables and charted on these maps.

The Chief Signal Officer is asked in terms by the resolution to express his views of the importance and value of these charts and tables, and also, inferentially, to express his opinion on the question of recurring droughts in Texas, and in relation to the vexed question of increasing or decreasing rain-fall in the arid or subhumid regions of the United States.

One other great result which must redound to the benefit of the trans-Mississippi and trans-Missouri country by the publication of these official data, will be the dispelling of erroneous and injurious impressions which have long prevailed regarding this extensive region. In the early century this territory was viewed as hardly suited for civilized man; its enormous plains and vast mountains being represented as arid and desert regions, unsuited for cultivation, and in many places, even unfit for pasturage. Adventure, exploration, and circumstance have pushed the front. ier westward until the myths of the Great American Desert to the north and of the rainless "staked plains" to the south have practically disappeared. It is none the less true, however, that the latest and most reliable American text-book of meteorology of this country speaks of the areas "between the Sierra Nevadas and the Rocky Mountains, including portions of Utah, New Mexico and California," as "a region which is almost entirely destitute of rain," and that further on the east side of the Rocky Mountains "the country is a barren desert, almost without rain."

As to the value of these charts, there should exist no reasonable doubt, since they not only show prospective settlers in these States and Territories the probable rain-fall conditions, but likewise show it to parties contemplating industrial, agricultural, stock, and other investments in these extensive regions. It is evident to all, however, that the rain-fall conditions for separate years vary quite considerably, and, indeed, the opinion has been put forth that these variations are not only enormous, but are so irregular as to render their prediction impracticable, and even that rain does not fall for years in certain sections.

An examination of the charts of maximum annual rain-fall and minimum annual rain-fall of these regions, as presented herewith, show clearly that rain-fall conditions are considerably more equable than has been generally believed, so that the isohyetal lines are quite as regular on these charts of maxima and minima conditions as on those of average conditions. The minimum rain-fall has never reached zero for any year, and annual or seasonal rain-falls less than one inch have occurred in southwestern California and southwestern Arizona at few stations only. These maps of maxima and minima precipitation must be of great practical value as showing the settler or investor exactly the extreme conditions which he must expect to experience in these regions.

Another great value of the charts is the bringing to general attention and consideration very extensive areas of country in what has been known as the arid region, where late and careful observations have shown the rain-fall to be far greater than has been usually attributed, and thus transfer these areas to the subhumid districts.

The great extent to which misapprehension as to the rain-fall conditions of the arid regions has been corrected by these charts is evidenced by the fact that the area on which the mean annual rain-fall is less than 10 inches, shown on statistical maps of the tenth census at 241,000 square miles, has been reduced to 126,000 square miles, while a similar reduction is shown in the area of country where the yearly rain-fall is between 10 and 15 inches, which, given in the census chart at 385,000 square miles, is now limited to 259,000 square miles. In other words, the area over which less than 15 inches of rain falls annually has been reduced almost a quarter of a million (241,000) square miles. A large area of country charted on the statistical map as having an average rainfall of less than 5 inches now entirely disappears in Texas, New Mexico, Utah, and Oregon, and is very materially reduced in Nevada, Arizona, and California.

Observations over a small, compact agricultural area of South Australia affords very reliable data as to the effect of rain-fall upon annual wheat yields. It appears from these observations that 12 inches of rain in the six winter months produces 6 bushels of wheat per acre, and that for every increase of rain-fall of an inch a like increase occurs in the average production of bushels of wheat per acre. The effect of the extra rain in the season over the small area of South Australian wheat lands would give an additional fee-simple value of £10,000,000.

The importance of information as to the rain-fall conditions of the arid regions must increase steadily as time goes on, and the Eastern States become gradually filled with a more or less dense population. As has been pointed out by the Director of the Geological Survey, the arid region of the United States includes more than four-tenths of the entire country, excluding Alaska. It is believed that the accomplished Director unintentionally overstated the case when he advanced the idea that those regions should be classed as arid or incapable of successful agriculture without irrigation where the rain-fall is less than 20 inches annually. The statements put forth by him that with 20 inches agriculture will suffer drought, and will be fruitless many seasons in a long series, is equally true of regions over which as much as 25 or 30 inches fall annually. Indeed, during this very year sections of the country where the annual rain-fall ranged from 30 to 50 inches have been visited by a most serious and protracted drought, which proved most disastrous to agricultural and other kindred interests.

The point at which a region may be classed as arid and unfit for successful irrigation should be lowered, it is believed, to 15 inches. The Chief Signal Officer does not assert that this amount of annual rain-fall will be sufficient for all crops, nor on all kinds of soil, and at every elevation. Latitude, elevation, equable distribution of rain-fall, humidity, soil—all these are conditions which must be important factors in the problem. Exact observations upon these points are lacking in the United States, but in Australia observations and experiments have been made, covering now quite a number of years, on wheat (and this may be called a test crop).

The fact that wheat can be grown without irrigation in a country where the annual rain-fall is less than 20 inches is evidenced by official statistics from Dakota, which show that wheat is grown by tens of millions of bushels yearly in sections where the rain-fall ranges from 20 inches downward. Indeed, the arid region limit based on 15 inches mean annual rain-fall is a most reliable one in that region, as is evidenced by the fact that over 3,000,000 bushels of wheat are now grown annually in counties where the rain-fall ranges from 15.1 down to 13.8. (See "Resources of Dakota, 1887," an official publication.)

The report of Major Powell states that in Utah less than 3 per cent. of its lands can be cultivated by irrigation. Thirty years since it was argued that the prevalence of alkaline matter in the soils rendered it evident that the whole country was worthless for agricultural purposes, even if sufficient rain-fall prevailed, or water for irrigation was available. Experience has shown the fallacy of this statement, and it is now admitted that with water the greater part of the plateau lands are suited for cultivation. It is evident that a certain degree of elevation marks the limit of successful agriculture. But in certain portions of the arid regions, owing to the very high summer temperatures, it is probable that the summer heats raise the limit of elevation for such crops as can be developed and ripened in a few months.

Perhaps the most careful observations in connection with the effect of rain-fall upon pasturage have been made in Australia, the question being very important, owing to the immense arid regions in that country. It has been set forth, and probably with a fair degree of authority, that annual rain-fall is a most reliable index as to the pastoral capacity of a country, since grass benefits by rain at any season, although it is not to be denied that a more equable distribution throughout the year is much better than an unequal cne.

Australian records show that in that climate land favored with less than 10 inches of rain a year is quite valueless without irrigation. The truth of this remark is borne out in a measure by the uplands of Castile, Spain, which, the average rain-fall being less than 10 inches a year, are of but little value. In Australia the small pastoral capacity of an arid region is shown by the fact that up to 10 inches only one sheep per square mile can be carried for each inch of rain-fall. From 9 to 13 inches, however, the increase is about twenty sheep a square mile, and for the remaining 7 to 20 inches of rain-fall the increased carrying capacity is about seventy sheep per square mile.

It has been estimated that the sandy land in the San Joaquin Valley, California, would feed about one sheep to the acre in the natural state, but when irrigated and growing alfalfa it carries twenty.

THE WESTERN STATES AND TERRITORIES.

The statement put forth by the Director of the Geological Survey that over 20 inches of rainfall is necessary for the growth of forests is probably correct, and, the conditions of temperature and soil being constant, the extreme limit of the timber regions would not differ materially from the mean rain-fall line of 20 inches; but, as is well known, the timber regions have been materially reduced in area by fire. From this cause not only have these regions suffered where timber would grow freely, but the bordering line of debatable land has naturally lost all its timber; and, moreover, it is most probable that the destruction of scattered and stunted bits of outlying forests has of itself tended to still more restrict the general area of the forest regions.

The effect of forests as factors in the increase of rain-fall is more or less questioned, but the weight of opinion and of accumulative evidence tends to confirm the theory that forests do slightly increase the mean rain-fall. The confining of Indians to reservations has removed one fruitful cause of fires during the last ten years, so that the stunted forests are having an opportunity of increasing the limit only by the operation of natural laws. The immense number of planted and cultivated trees over the great plains of Kansas and Nebraska will undoubtedly contribute their part in the coming years toward the increase of rain fall, and, what is more important, its substantial retention in the soil and more slow and equal distribution than was possible when the same amount of rain fell upon a hardened, open prairie, and, without the intervention of loosened soil and vegetation, drained at once as torrents into the beds of the nearest water-courses.

The question of irrigation is rightly deemed in the arid regions as being of the greatest importance to the general welfare, so that the subject of water-rights has claimed early attention in these Territories. In New Mexico, for instance, water for irrigation has an absolute right of way, and no work of human hands is allowed to obstruct its free flow, while all rivers and streams are declared public acceptias or irrigating canals. Since, however, the land to be irrigated exceeds the capacity of the water, disputes in the future must become more frequent as to the division of these water-rights, since from time to time much land which has received a bountiful supply of water will find this quantity seriously diminished, or totally cut off, as other irrigable land is put under cultivation nearer the source of supply. It is understood that more or less complaint has already been made by the settlers in the lower valley of the Platte that the quantity of water which formerly came to them from the upper valley, which is in another State, has been materially reduced. to the serious detriment of the settlers in the lower valley. It may be put forth as a reasonable opinion that each State is entitled, for agricultural purposes, to so much rain-fall as naturally falls upon its agricultural lands, while the amount which falls in uncultivated regions might be subject to other rules as to its general and equable distribution. In any event, this may become an important question, for such people of Nebraska, for instance, as depend upon irrigation in their agriculture, when later the valleys of Wyoming and Colorado shall be put under the fullest possible cultivation.

The question, then, assumes a magnitude far greater than is usually assigned to it, affecting as it does the future agricultural interests of one-third of the area of the United States. This question, which concerns the interests of millions of people, can not be satisfactorily discussed and arranged without a knowledge of the mean annual rain-fall which falls over the area of each particular drainage basin.

The extreme value in the arid region of every inch of rain-fall can hardly be appreciated by the population of well-watered countries. Since this is a question which affects four-tenths of the area of the United States, there seems no doubt but in the future the interests of such an enormous area will concur in urging upon Congress the question of State-control irrigation. In one of the governments of that country which most resembles the United States (Australia) this policy has lately been taken—by the government of Victoria. In Spain it is calculated that every five inches of rain-fall that can be collected off a given catchment area and brought to market is worth the same area of first-class irrigable but unirrigated land. The question which may arise between Nebraska and the Territories comprising the headwaters of the Platte has already greatly excited the public mind in Australia on the question as to whether South Australia has any right to have water flowing in the Lower Murray.

It is to be borne in mind that the rain-fall of the arid regions depends almost entirely upon accidental or cyclonic disturbances, and not (as in some parts of the world) on steady, prevailing winds which change at stated periods of the year. It thus follows that the rain at stations throughout these districts is simply the deposition of moisture in the shape of rain or snow, through the cooling of the air drawn by cyclonic disturbances from the elevation of the sea to high altitudes.

It occasionally happens, however, that from violent atmospheric disturbances (which, although largely local, have a definite relation to the general atmospheric conditions) the entire, or nearly the entire, amount of moisture of the air is suddenly condensed and precipitated in the shape of enormous quantities of water known as cloud-bursts. The general rain-fall, nevertheless, as has been before stated, depends upon condensation through the cold of elevation, and it is probable that the maximum rain-fall on mountain slopes, or rapidly rising grounds, is at an elevation of about 3,000 feet, as in Europe. In consequence of this fact the elevations of the stations have been given as far as practicable without too long delaying these data. Such reductions as a more elaborate treatment of the subject may demand can be made by parties discussing data pertaining to stations much above the elevation of the adjacent country.

To the wise provision and careful attention of the directors of the Central Pacific Railway a very large number of the observations here given are due; but this railway line naturally runs through the lowest plateaus and passes of Utah, Nevada, and California, where the rain-fall is the least. In consequence of this fact, it is tolerably safe to assume that the data from isolated stations of quite high elevation, which tend to show large rain-falls, do not entirely counterbalance the large number of small rain falls over the country of least elevation, and that the average rain-fall through the arid region, as shown by these maps, is really less than the average amount which actually falls over the entire region.

It is well known that enormous quantities of water occasionally fall in these arid regions, the phenomena being known as cloud-bursts. These downpours of rain, while injurious and even destructive at the time, yet being taken up by the earth, they serve usefully later as a water supply, through the medium of rivers, artesian wells, or springs. The quantities which fall in a single cloud-burst can not be calculated, but the amount can be expressed by no other word than enormous. In southeastern California, in the desert country, where it has been said that no rain falls, one cloud-burst was of such extent that, although the country was nearly level, yet water fell in such enormous quantities that over a quarter of a mile of the Southern Pacific Railroad was completely swept away, and other portions of the track submerged and damaged. It is to be noted, also, that this quantity of rain fell during one of the dry months, when the rain-map showed for southern California only .01 or .02 inch of rain, barely enough to moisten the surface of the sandy desert.

That this is not a solitary case of exceedingly high precipitation in the arid region at points where no rain-fall stations are located is well known to meteorological students; as among other instances may be quoted August 26, near Hays City, Kans., and on same date near Kanab, Utah, and five days later near Coalville, Utah, the cloud-burst causing a solid bank of water between 3 and 4 feet high.

February 17, 1878, Comanche, Calaveras County, Cal., causing a bank of water several feet in height, and covering the entire slopes of hills with torrents of water.

August 8, 1881, Central City, Gilpin County, Cal., causing a wall of water from 4 to 6 feet deep through the leading street.

August 14, 1881, 60 miles south of station on American Fork Cañon, Utah, carrying away houses and trees.

August 6, 1881, Wickenburg, Ariz., in five hours the river, being perfectly dry, became a mile wide and from 2 to 15 feet deep, with a current of 10 miles per hour.

June 7, 1884, near Helena, Mont., and June 22, 1884, another near Helena, Mont., with a wall of water 8 feet deep.

June 10, 1884, in Humboldt County, Nev., to such an extent that the Central Pacific Bailroad track was badly washed in places a distance of 30 miles.



THE WESTERN STATES AND TERRITORIES.

Rio Grande City, Tex., May, 1885, 3 inches of rain in one hour at station, and in eleven hours the Rio Grande River rose 20 feet, extending its width from 100 yards to 5 miles. This excessive precipitation was comparatively local, for the river fell immediately afterward.

Near Montrose, Colo., May 17, 1885, and Indiana, Red Willow County, Nebr., May 26, 1885, flooding Richmond Cañon to 15 feet deep, and drowning a party camped in the Cañon.

On the divide south of Denver, Colo., July 25, 1885, a most remarkable cloud-burst, doing immense damage.

These cases might be multiplied, but enough has been given to accentuate the fact that the wide distribution and tolerably frequent occurrence of these cloud-bursts must so add to the water falling on the arid regions as to make the supply vastly greater for irrigating and other purposes, through the media of springs, streams, and wells, than these charts set forth.

The Chief Signal Officer puts it forward as his opinion that when Idaho, Nevada, Utah, New Mexico, and Arizona shall have been covered with rain-gauges as completely as New York or New England, the final outcome of observation will indicate that actual average of rain-fall for this arid region is now understated by the census charts from 20 to 40 and by these from 10 to 15 per cent.

The question of increasing rain-fall in the Great Interior Basin seems to be satisfactorily settled as far as the catchment basin of Great Salt Lake is concerned. The systematic and careful observations made by Prof. G. K. Gilbert, of the Geological Survey, supplemented by other data for the past forty years, which he has collated and sifted, gives with tolerable accuracy the level of the Great Salt Lake, which serves as a reservoir for probably two thirds of the entire territory of Utah, as well as for a considerable portion of Idaho. A chart kindly furnished by Professor Gilbert shows that Salt Lake fell from 1845 to 1849; rose to 1856, fell to 1860; rose to 1873, and fell, with a slight interruption, until 1884, and rose until 1886, since which time it has a slightly falling tendency. It is significant that while the first two minima were substantially the same in 1849 and 1860, yet the minimum of 1884 is at about the same height as the maximum of 1856, and is over a foot above the maximum of 1845. As the country adjacent to the lake is substantially level, it follows that any increase in the height of the water must be most gradual, since the area of the lake, and consequently the evaporating surface of water, is largely increased. This consideration would not be so important in some portions of the United States, but in a region where the annual evaporation can not be far from 6 or 7 feet, it is a very pertinent fact.

The changes in the level of Salt Lake are perhaps best shown by five-year periods, beginning with 1845. The elevation above zero (lowest water-level) for five-year periods is as follows:

	Feet.
1845 to 1849	2.1
1850 to 1854	3.4
1855 to 1859	5.2
1860 to 1864	3.6
1865 to 1869	9.6
1870 to 1874	12 6
1875 to 1879	11.5
1880 to 1884	6.4
1885 to 1887	8.2

It is a significant fact, which may, however, be overrated, that the greatest and most rapid rise of the water of Salt Lake occurred between the years 1862 and 1870; that is to say, during the period when the amount of land being brought under cultivation and the quantity of vegetation and the number of trees was most largely increasing. This increase of height in Great Salt Lake continued, too, despite the fact that irrigating canals were being brought into extensive use, so that large quantities of water which otherwise would have run into the lake were diverted to watering the irrigable lands and was absorbed by the soil or evaporated in the dry air of that region.

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The rain fall records of Salt Lake City and Camp Douglas are, unfortunately, too broken and unsatisfactory to show the exact relations of the rain-fall to the rising lake. It has, however, been stated that after 1860 a number of creeks which ran dry in summer commenced to furnish water the whole year round. The Chief Signal Officer of the Army, when serving at Salt Lake in 1867, was informed by old settlers that the name "New Creek," which was then given to the creek running through Camp Douglas, was so applied because the creek, which had never given water except during the spring freshets from the melting snow, had become a permanent stream winter and summer.

In connection with this question of secular variation and increase in rain-fall comes up also the problem as to whether forests have any effect upon rain-fall. As stated previously, the Chief Signal Officer has no doubt of the valuable services rendered to agriculture and other interests by the slow, equable, and gradual distribution of water through the medium of forests. In a recent article upon the Yellow Stone Park as a forest reservation Prof. Arnold Hague, U. S. Geological Survey, urges the value of forests as a protecting influence for the country comprised in the lower drainage basins of rivers. He says:

In an arid and sparsely timbered country, and one of unequally distributed rain-fall, forest and moisture maintain reciprocal relations. Experience has shown in Europe, and unfortunately already in America, the injurious effect of disafforesting a country near the headwaters of large rivers. One instance will suffice to illustrate this protecting influence of the forest. The report of the recent forestry commission of the State of New York says, speaking of the resources of the Hudson River, that the summer flow of the Adirondack rivers has decreased within the memory of men now living from 30 to 50 per cent. Many of the small streams which a quarter of a century ago were abundantly supplied with water during the entire summer are now dry during many months.

Remove the forests from the sources of the Yellowstone and Snake, and the regio will become a barren waste. The snows under the scorching rays of the sun would rapidly disappear, and early spring freshets and floods, carrying devastation before them, would strip the rocks bare of the meager soil with which they are now covered. Under the influence of the forests the soil and vegetation are protected, which in turn act as a sponge, regulating the flow and supplying the springs and streams. The climatic benefits derived from this forest-protected region can scarcely be overestimated. From the cool, wet surface of the broad store-house of water, the dry winds coming from the west absorb immense quantities of moisture, which is again precipitated over the agricultural and grazing lands to the eastward. Not only should the present reservation be carefully guarded, but the area of the park should be enlarged^{*} to the east and south, so as to take in a dense forest region useless for agricultural purposes and destitute of mining resources.

The Chief Signal Officer concurs with Professor Hague in the opinions here advanced, and also is of the opinion that extensive forests slightly increase the rain-fall of any country, although not to such an extent as is advanced by many.

Mr. Henry F. Blanford, the able and experienced meteorological reporter to the government of India, one of the most reliable authorities on meteorological subjects, dwelt somewhat, in his last report (1885-'86), upon the effect of forests upon rain-fall. He believes that the observations in India show a slightly larger rain fall in forests than without, and that the obvious inference to be drawn from the tabulated data is that the existence of forests increases the rain-fall. While admitting that the present evidence is not entirely conclusive, yet he expresses the opinion that the certainty of this tendency will be further confirmed by future experience. The most striking instance of apparent increase of rain-fall owing to forest production refers to the Central Provinces of India, where the rain-fall average for the past eleven years is considerably larger than when obtained from a longer period. In investigating the cause of this change the fact was developed that "extensive tracts of forests, previously devastated by jungle fires with a view to the nomadic system of cultivation practiced by the hill tribes, had been brought under protection in 1875, and that thereby the area of vigorous forest growth had been enormously increased." It appears from extended observations in India that the probable error of mean rain-fall derived from ten years' observations is but 5 per cent., while the increase in this case was 10 per cent. Admitting that 5 per cent. was due to the error in the ten year mean, it appears that an equal amount must be attributed to some local cause; and while the conservation of the forests is not positively shown to be this cause, yet this accumulating evidence is of marked importance in relation to this subject.

The secular variation of rain-fall, as has been set forth by many writers, may be considered as undoubted; but as to whether it follows any known or definite law is very much to be questioned; since, although a succession of dry years follow each other, which are succeeded by others about the mean, and then again by a succession of wet years, yet it does not need a very elaborate comparison to show that excesses of rain prevail in a given year in one section of the country while deficiencies occur in the same year in others.

As regards this increase, it is apparent that the question can not be determined by the records of the Great West, since they are not of sufficient length, nor have they been sufficiently continuous, nor even made under absolutely the same conditions. Differences of methods and instruments may cause butslight discrepancies, but differences of condition as regards exposure, when supplemented as they certainly have been in many cases—by the neglect of the observer to note observations which have been missed, render examination of any single record of but little value. The Chief Signal Officer has examined such records as from their length, continuity, and relation to the arid or subhumid regions, might be of value in solving this question. The method adopted is open to objections, but no simple and better one seemed to present itself. The method consists simply in dividing the entire record into two equal periods and comparing the average annual rain-fall for the first half with the latter. Where the record is continuous and comparable the results would be affected only by the secular variation, which in very long periods would substantially disappear. But in cases of interrupted records the values obtained can be deemed neither as valuable nor as reliable as those of a consecutive series.

The record (continuous) at Austin, Tex., covers thirty-two years; the mean rain-fall during the last sixteen years is 5.1 inches greater than the first sixteen.

The record (interrupted) at Ringgold Barracks, Tex., covers twenty-seven years; the mean for the first thirteen and one-half years is 2.1 inches greater than the last half.

The record at Fort Bliss (and El Paso), Tex., for twenty-three years: First eleven and one-half years 3.1 inches smaller than the last half.

The record (interrupted) at Camp McDermit, Nev., covers eighteen years ; the mean during the last half is 8.1 inches greater than the first. Over half of the great excess depends on two years.

The record (continuous) at Camp Bidwell, Cal., covers twenty-one years; the mean during the last half is 1 inch greater than the first, from *calendar* year, and 0.8 inch for the *seasonal* year.

The record (interrupted) at Camp Gaston, Cal., covers twenty four years; the mean during the last half is about 1 inch greater than in the first.

The record (interrupted) at Fort Union, N. Mex., covers twenty-eight years; the rain-fall during the first half was about 0.8 inch greater than the last half. The whole excess is due to the two months in a single year, which observations Schott considers doubtful.

The record (badly interrupted) at Santa Fé, N. Mex., covers thirty years; the mean during the first half being about 0.5 inch higher than the last half.

The record (interrupted) at Fort Gibson, Ind. T., covers thirty-two years, the rain-fall being 1 inch greater the last half than the first.

The record (interrupted) at Fort Boisé, Idaho, covers twenty-one years; the mean of the first half is about 1 inch higher than the last half, but the entire excess occurred in one year.

The record (interrupted) at Fort Lapwai, Idaho, covers eighteen years; the mean during the last is 4.3 inches higher than the first.

The record (continuous) at Scott Valley, Cal., covers twenty-seven years; the mean during the last half is 2.6 inches higher than the first half.

The record (interrupted) at Fort Yuma, Cal., covers thirty years; the mean of the first half is about 0.5 inch less than the last half.

The record (interrupted) at San Diego, Cal., covers twenty-four years; the mean during the last half is 1.5 inches higher than the first half.

The record (continuous) at Sacramento, Cal., covers forty years; the seasonal mean during the last half is 0.5 inch less than the first half; the calendar mean 0.1 less.

The record (interrupted) at Stockton, Cal., covers twenty-four years; the calendar mean for the first half is 0.1 inch less than for the last half.

The record (continuous) at Camp McDowell, Ariz., covers twenty years; the mean for the first half is 0.5 inch greater than for the last half.

The record (continuous) at Leavenworth, Kans., covers fifty years; the mean for the first half is 4.7 lower than for the last half.

The foregoing summary covers long and not too badly broken records at all stations in the arid or sub-humid regions, as far as the Chief Signal Officer has been able to collate. It is to be noted that in twelve cases the rain-fall has increased in the last half of the series, as against a decrease at six stations. The same proportion (four increases and two decreases) obtained at the six stations with continuous records.

In March, 1887, the importance of the question of secular variation of rain-fall and consequent droughts impressed itself upon the Chief Signal officer of the Army, and he directed a careful investigation into this question. The work of collation and discussion was intrusted, with very brief instructions, to Junior Prof. Henry A. Hazen, of the Signal Service, who, having previously examined this question, was thought to be best informed upon it. The outcome of his investigations, in brief form, appeared in the Monthly Weather Review of the Signal Service, April, 1887, the important deductions of which are as follows:

From month to month for more than a year reports have come in of a great lack of rain and consequent drought in Kansas and Texas. In some instances fears have been expressed lest there has been entered upon a period of more or less permanent diminution in rain-fall for this region. A careful investigation of this question was ordered by the Chief Signal Officer of the Army, and has resulted as follows:

The subject has already received attention at the hands of Prof. C. A. Schott, who decided in 1876 that up to that time there had been a slow and steady increase of precipitation since the earliest authentic records, which go back to about 1837. He also thought that probably the maximum or turning point had been reached and that there would be some diminution from that time on.

In 1883 an investigation of this question by the present writer showed a diminution of precipitation in 1879, but a marked increase for the three succeeding years. In the fifth biennial report of the Kansas State Board of Agriculture, p. 176, there is a paper entitled "Studies of rain-fall in Kansas, as affecting climate," in which the writer, after a discussion of observations at Fort Leavenworth since 1837, and at Lawrence and Manhattan for shorter periods, says: "Extremes follow each other in regular sequence. We have had no more than two or three dry or wet years in succession. * * * We may fairly claim that Kansas climate is becoming more and more favorable. We may expect in the future, as in the past, wet seasons and dry seasons. We find often that these alternate year by year, and if the change is not annual, we have two, three, or four years of excessive rains followed by an equal period when the rain-fall is below the average." A writer in the Coast Review thinks that a more or less severe drought occurs every seven years in the Missouri Valley. He notes a severe drought in 1860, a mild one in 1867, a severe one in 1874, and one less severe in 1881. A comparison of the precipitation for these years with the average for all the years shows that it was less. We may conclude that, in general, a marked deficiency in precipitation in any year has a tendency to drought, though this is varied largely by the distribution of rain and the temperature. A less fall in winter does not affect the crops if an average amount falls during the growing season.

On a comparison of the rain-fall during the growing season of 1886, for Kansas and Texas, we find a marked deficiency. The rain-fall for this year shows the following deficiencies: Omaha, -13 inches; Leavenworth, -12 inches; Dodge City, -2 inches; Fort Sill, -12 inches; Fort Davis, -6 inches; Galveston, -9 inches. It will be understood that the deficiency of 2 inches at Dodge City means more than the same would at Leavenworth, as the total precipitation is only about half at the former, as compared with the latter. Instances of as small a precipitation at Leavenworth back to 1837, are as follows: 1864, -19 inches; 1860, -15 inches; 1847, -14 inches; 1843, -19 inches. Taking the mean of each five years we find the following values and deficit or excess:

Pentade.	Mean.	Deficit or excess.	Pentade.	Mean.	Deficit or excess.
1837-'41. 1842-'46. 1847-'51. 1852-'66. 1857-'61. 1862-'66.	Inches. 31. 42 29. 32 33. 35 31. 28 85. 37 30. 34	Inches. -3. 10 -5. 20 -1. 17 -3. 24 +0. 85 -4. 18	1867-'71 1872-'76 1877-'81 1882-'86 Mean	Inches. 38.83 38.66 41.11 35.58 34.52	Inches. +4.31 +4.14 +6.59 +1.06

r It should be noted that the period of observation is not sufficient to enable a perfectly satisfactory deduction, but it is plain that there has been a marked increase in precipitation during the last twenty years. The apparent falling off in the last five years is not unexpected, and does not indicate a permanent diminution, as it is mostly due to the small amount in 1886, and there have been four annual records previously, with a greater falling off than in 1886. We may conclude that the scarcity of rain-fall in 1886 is not unprecedented, and that from past observations there is no proof of a permanent diminution in precipitation. Many more years' observations will be needed to establish a marked secular variation.

We may consider that opening up the land to tillage, planting trees, and general covering of many square miles with vegetation that were formerly barren wastes has a tendency to retain the moisture from the clouds and this in turn renders the air slightly more humid, so that there has been an actual increase in the rain-fall, and so long as these favoring influences continue there is no danger of a relapse to former conditions. A diminution for one or two years will be followed by an increase, and the average precipitation will continue to increase.

A proof of the general increase of moisture in the soil is given in the biennial report quoted above, in the fact that, notwithstanding the increase of springs emptying into the water courses, there seems to be a tendency to a less flow of water in the streams. This seems to show a retention of moisture in the soil and a consequent increase of springs.

While this investigation applies more particularly to the eastern part of Kansas, because we have no long series of records either in western Kansas or Texas, yet from a comparison of rain-fall records during the past fifteen years, we find that the fluctuations in these regions do not materially differ from those in the region here considered. The same principles here enunciated apply to Texas, except as modified by a less cultivation of the soil and a less covering of the surface by vegetation. Farmers in these regions need fear no permanent change in the climate for the present at least.

The Chief Signal Officer does not hesitate to express the opinion that the trans-Mississippi and trans-Missouri rain-fall is slightly increasing as a whole, though in certain localities it may be slightly decreasing from causes set forth above, and it seems most proper for him to put forth his strong conviction, even if it be not a certainty, when, as in this case, it will tend to reassure the agricultural population in the lately drought-stricken districts of the West. There appears no possible reason to believe that the scanty rain-fall of the past year or two will not be followed by increasing precipitation in the next few years, which will maintain the annual rain-fall of these sections at the average, or even increase it. It is believed that the interests of the entire country will be subserved by the publication of a large edition of the rain-fall charts and tables accompanying this report.

The Chief Signal Officer desires to invite the attention of the Senate to the fact that there are a large number of counties in the twelve States and Territories above mentioned in which no rain fall observations have ever been made. The value of such observations is obvious, and it is recommended that a joint resolution, as appended hereto, be adopted, which will authorize the Chief Signal Officer to issue, gratuitously, rain-gauges and measuring-sticks to any reliable voluntary observer who resides in a county from which rain-fall reports are not now obtainable, and who will guarantee to make at least one year's continuous record free of expense to the United States. The cost of 300 rain-gauges, which would probably cover these cases, would not exceed \$900, while the data thus obtained would be of very considerable value. Under the present law the Chief Signal Officer can issue a rain-gauge to any observer situated at a point where observations are needed, provided that a bond is given, and the observer makes regular returns of the property to the Chief Signal Officer. This puts the observer to an expense of 50 cents for the bond, and the Government to the expense of stationery and forms of different kinds, as well as for clerical labor to keep account of the property. Eventually the rain gauge rusts out, and is dropped by a board of survey; so that the issue of these rain gauges gratuitously would really be more economical to the Government in the end than if a bond was given and returns made. The Chief Signal Officer believes that the value of these observations would exceed ten-fold the few hundred dollars of expense entailed by such a resolution. The contribution of time, care, and trouble given freely by such observations may be considered a fair offset against the outlay of 1 cent a day for one year by the United States.

A. W. GBEELY, Chief Signal Officer.

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The PRESIDENT OF THE SENATE. (Through the Secretary of War.) .

CHARTS AND TABLES

OF

RAIN-FALL ON THE PACIFIC SLOPE,

WITH A DISCUSSION OF

THE CAUSES OF THE WET AND DRY SEASONS, THE ABUNDANCE AND DEFICIENCY IN DIFFERENT PORTIONS, THE SUMMER RAINY SEASON IN ARIZONA, ETC.

BY

W. A. GLASSFORD, SECOND LIEUTENANT, SIGNAL CORPS, ASSISTANT.

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RAIN-FALL ON THE PACIFIC SLOPE.

INTRODUCTION.

During the year 1886 the writer compiled statistics of rain-fall for Washington Territory, Oregon, and California, which were published in the California State Board of Health report for that year. These tables have been extended to include more reports, with later data, and to embrace Nevada, Idaho, Utah, and Arizona, including most of the area west of the continental divide.

To present the data so as to be easily comprehended, the monthly and yearly averages have been placed upon charts, and lines drawn, showing areas of equal precipitation. A short memoir is also included, which considers the conditions and causes producing rain-fall in the region charted.

A knowledge of country is not only a matter of scientific interest, but of practical bearing upon the future development of territory to the rapidly increasing population, which must soon utilize all the capabilities of production anywhere in this country afforded. Much of the area has been heretofore considered only as a great mining country, with a few places adapted to grazing, and little attention has been given to other valuable features. The exceptional fertility of the soil when under the influence of water, with the genial climate, has stimulated already great irrigation and artesian enterprises. It appears a discussion of the primary source of water supply is a matter of both interest and value.

The most of these records are up to a recent period, and, with the number of months of observation included in making the average, any later observations may be added to the product of this number and the average, and thus a new average, including later data, again determined. Whenever a doubtful or incomplete record for a month occurs it is not included, which explains in many cases the considerable differences in the number of months used in determination of averages from the same place.

The source of the records are principally the Signal Service, Army post surgeons, the Southern Pacific Railroad reports, and a great number of excellent observers on the Pacific coast, whose attention to correct observations arises from a true appreciation of the close relation rain-fall bears to crop production. It is hoped that this publication may further encourage this large class of observers to continue and others to join, and thus, by increased numbers and continuity, further add to this department of meteorology. Especially is this desirable in localities where reports are absent.

GENERAL TOPOGRAPHY OF THE BEGION WEST OF THE BOCKY MOUNTAINS.

A detailed description of the topography of the Pacific slope may be omitted, and such made having in mind only the prominent features which influence rain-fall. There may be observed a close coincidence in the lines of contour and of rain-fall where projected on the same map, especially in California west of the Sierras. In fact, the climate of portions of the Pacific coast is so directly dependent upon features of topography that an outline, at least, must precede any intelligent discussion.

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The mountain backbones seem to constitute the dividing line of most elements of climatology. The Rocky Mountains form the main axis of the continent, and are the line of division between the Pacific coast and eastern climate, as well as the divide of two great drainage areas.

The Sierra Nevada range in California, and its continuation in the Cascade range in Oregon and Washington Territory, forms a secondary axis, further dividing the Pacific coast proper from the Great Basin and arid district, extending from Arizona to Idaho. A coast range in California again walls in the great valley of California, thus making a climatic belt within, differing from any other portion of the area under discussion. This valley of so great fertility and so densely populated has furnished the great portion of the records of rain-fall presented.

As before noted, the relation between elevation and rain fall, with such frequent points of observation, is shown to be so close that each marks the valleys, lower foot-hills, broken lands, Coast and Sierra ranges.

To begin with California, the mean height of its surface will approximate 2,800 feet above sealevel. The high ridge of the Sierra Nevadas begins southeast of Tulare Lake, in latitude 36° north, and for about two degrees northward becomes a wide range, nearly averaging, at the summit, 12,000 feet above sea-level. The eastern slope is precipitous, falling midway to sea level into the Mono and Owens Valleys. The western side more gradually slopes into the Tulare Basin and San Joaquin Valley. This same chain from a little south of Lake Tahoe forms a narrower ridge, with its summit about 7,000 feet, which continues to where the Pitt River breaks through to join the Sacramento. The western side slopes gradually, giving a wide expanse of lower foot-hills and less of low valley country than in the San Joaquin. In the northern end of the State a considerable area averages from 7,000 to 10,000 feet above sea level around Mount Shasta, which is 14,000 feet. From the northern coast portion of the State the Coast Range forms a series of ridges, the highest of which seldom are above 4,000 feet. This chain is broken at the Golden Gate, but commences again and runs to the southern State boundary line, averaging at its crest about 3,000 feet, and connecting with the Sierra Nevadas in the Tejon range, thus closing the great central valley of California on the south. This valley is midway at sea level, about the Suisun Bay, and rises very gradually toward either end. South and east of the Tejon and southern Coast Range, to the Colorado River, is a desert plain, from 2,000 to 3,000 feet elevation, broken up by short chains of jagged, bare peaks. The extreme southern portion, bordering on the line of the Southern Pacific Railway, is even below sea-level, and doubtless the ancient bed of the receded Gulf of California.

There are several valleys along the coast, the principal being the water-shed of the San Gabriel and Santa Anna Rivers, which reach back nearly a hundred miles to the San Bernardino group of mountains. Next is the Santa Clara River Valley, the Santa Barbara coast, Santa Maria and Salinas River Valleys, and valley about the San Francisco Bay. All these, opening into the Coast Range, are wide and embrace large areas less than 1,000 feet in any portion above the sea, and include, perhaps, the most equable climate of any spots on the globe.

Through Oregon and Washington Territory runs the Cascade Range, the crest being from 8,600 to 1,000 feet high, paralleling the north and south coast line about 100 miles distant. Numerous peaks of the Cascades rise above the line of perpetual snow. The Columbia River finds a passage through the range and is joined by the Willamette River, which drains a valley smaller but similar to the Sacramento River Valley and shut in from the coast by a ridge about 3,000 feet above the sea. The valleys reaching in from the coast are small, and, except the Umpqua and Rogue River Valleys, the shore line is quite precipitous to Cape Flattery. The Puget Sound Basin also covers considerable area, but is separated from the west coast by the Jlympia Mountains, another coast range averaging about 2,500 feet high, but rising to 8,000 feet above sea-level in Mounts Olympus and Constance, near the Juan de Fuca Straits.

In Oregon, east of the Cascade Mountains and embracing the southern half of the State, the range rapidly merges into a plateau about 4,000 feet high. The southern half, east of the Cascade Mountains, is cut up by the Blue Mountains, except along the Columbia River, where considerable valley country exists.

In Washington Territory, east of the Cascades, occur the great plains of the Columbia River, a large portion of which is less than 1,000 feet above the sea. The eastern portion of the plain, however, gradually ascends to the foot of the Bitter Root Mountains. The Bitter Root range commences in northern Washington Territory and forms the eastern Idaho boundary in a ridge averaging some 7,000 feet high.

The Territory of Idaho has a surface whose mean height above the sea is 4,700 feet, a greater portion being from 2,000 to 6,000 feet. A spur of the Bitter Root Mountains extends from northeast down to the vicinity of Boisé City and appears as a high, precipitous, saw-tooth range.

On the boundary of Wyoming the high Wasatch Mountain range extends east of Great Salt Lake nearly to sonthern Utah. Nevada and western Utah, with southern Idaho and southeastern Oregon, constitute the Great Basin, which has a general altitude somewhat less than 6,000 feet. It consists of many narrow and short ranges, separated by wide barren plains. The mountains are generally low, with only an occasional peak that attains any considerable height. They are mostly sharp in outline, jagged, black and bare, extending north and south.

Arizona has an average altitude of about 4,300 feet, but with a variety of topographical features as numerous as California. It is principally an elevated plateau, from 5,600 to 7,000 feet in the north, and gradually descends to sea level in the southwest. The plateau portion is crossed by deep cañons and narrow valleys, diversified by massive mountain groups, surrounded by elevated grassy and wooded plains. The apex of the plateau is the San Francisco Mountains, which rise to nearly 13,000 feet above sea-level. From these mountains a ridge extends southeast, known as the Magollon range. Spurs continue to the southward in the eastern part of the Territory, which join the Sierra Madre in Sonora. The greater portion of Arizona is a high table land, and the low valleys are much smaller in area than generally supposed. The following table, from "Tannett's List of Elevations," shows the area of land in Arizona below 1,000 feet to be less than 3 per cent. of the whole Territory:

di State or Ter- ritory. Budiate milios	9006		Areas in square miles between-											feet		
	Approximate area square miles.	Mean height ab sea-level.	Sea-level and 1,000 feet.	1,000 and 2,000 feet.	2,000 and 3,000 feet.	3,000 and 4,000 feet.	4,000 and 5,000 feet.	5,000 and 6,000 feet.	6,000 and 7.000 feet.	7,000 and 8,000 feet.	8,000 and 9,000 feet.	9.000 and 10,000 feet.	10,000 and 11,000 fect.	11,000 and 12,000 feet.	12,000 and 13,000 feet.	Area above 13,000 f
Utah	159, 400 95, 000 70, 000 86, 300 112, 000 84, 500 109, 300	F. et. 2, 800 3, 800 2, 600 4, 700 5, 600 6, 100 4, 300	40,000 11,000 16,000 	27, 000 11, 300 18, 000 1, 100 500 10, 800	32,000 10,800 15,400 13,200 4,700	18,000 11,000 6,900 16,000 9,300 20,400	13, 500 30, 000 4, 400 22, 20.) 21, 000 21, 000 14, 500	9, 500 11, 300 3, 200 19, 200 35, 000 25, 000 14, 000	6,000 4,300 2,600 9,400 25,000 19,500 21,000	3,900 2,800 1,100 4,100 13,000 9,500 4,800	2,500 1,500 800 1,600 2,800 4,800 1,600	$1,600 \\ 800 \\ 700 \\ 400 \\ 600 \\ 2,500 \\ 200$	900 200 500 100 1,400 100	700 200 300 600	500 100 100 	30
Total	716, 500		70,000	68, 700	95,000	81,600	126, 600	117, 200	87, 800	39, 200	15, 600	6, 800	3, 300	1,800	900	30

Areas and average heights of States and Territories west of Rocky Mountains.

BAIN-FALL WEST OF THE ROCKY MOUNTAINS.

It is perhaps well to remark that the records of rain-fall, even when taken by a miscellaneous class of observers and with a variety of styles of gauges, gives results that are comparable and seem to approach about the true measure of precipitation. There are, however, in some cases evidences of inaccuracy. The advantage of rain-fall averages over other climatic data—temperature, for instance—is very great, for the questions of exposure, hours of observation, etc., do not enter so largely.

The territory included in the discussion, charts, and tables, except the immediate Pacific shoreline, is drained by few important rivers. The Columbia, with the Snake tributary, the Sacramento, and San Joaquin, and the Colorado, having the Gila, Green, and Grand tributary to it, are all. Some have found their way over plateaus and through mountain chains by erosion, which shows the long period of time the water falling upon the interior mountains has taken the same channel in its return to the ocean.

This vast area includes such a variety of physical conditions that the quantity of precipitation invited by different causes upon the surface ranges from the extreme to the least occurring in the United States. The topographical features, with temperature, close proximity to or distance from districts of cyclonic frequency, in the main, cause these differences. The presence of a high range of mountains so near the ocean confines the greatest rain-fall to the proximate coast, and the conditions of temperature being so constant, and the distance from regions of any storm frequency being so great in the southern portion of the Pacific shore-line, the rain diminishes in every direction as we recede from Cape Flattery, the extreme northwest point of the United States.

The season of rain occurrence notably varies in different portions of the Pacific slope. In California, Oregon, and Washington there is a marked dry season during the summer, which lengthens in duration to the southward. In Arizona there are two rainy seasons, one in midsummer, the other during the colder portions of the year. Between the Rocky and Sierra Nevada ranges of mountains the rain-fall is rather uniform, but with an increasing tendency during the winter.

The primary source of precipitation is undoubtedly the ocean. By a consideration of the means by which the vapors from this source are distributed and the changes that occur in their transport from this great reservoir, we may gather some knowledge of their divergence and manifestation in so different quantities at different times in the various locations within the area under consideration.

The ocean winds that blow over the Pacific slope must be heavily laden with moisture. Perhaps there is little difference anywhere on the Pacific coast-line between the actual amount of vapor that is brought from this aqueous reservoir. The direction in which it is carried is with the prevailing wind and cloud movement, from the west and southwest. The warm Japan current appears to make the moisture brought over the northern shore as great as further south, and which probably contributes in a marked degree to the heavy precipitation, especially from Oregon to Alaska. On the shore-line we find frequent and at some seasons constant fogs, arising from the contrast of temperature between the water and land. Going farther toward the interior, but at no great distance from the shore, the first mountain step is found in the Coast Range. Vapors are often raised to the condensing cold of elevation by this range, but they by no means take any considerable portion of it, but the second and greater step, a comparatively short distance from the first, appears in the Sierra Nevada or Snowy Mountains, whose cold summits deplete the moisture brought from the ocean perhaps one-half. Beyond this mountain axis no important elevation occurs till the Rocky Mountain system is encountered, which perhaps still further depletes the air of its moisture by the lower temperature of its higher summits. But they do not appear to exhaust the supply, for there is no evidence of an equal rain fall on the Western Rocky Mountain slope as on the Western Sierra slope; consequently much of the Pacific moisture may be carried beyond, or east of the Rocky range, and combines, especially with the Lake sources, to give abundance of rain to the Lake Region and west of it. It will be borne in mind that the Montana and Dakota plains in the winter are the coldest regions on the continent, and serve to furnish the temperature conditions similar to a mountain range. In fact, if the isothermal lines could be looked upon as contour lines, those of the winter would place an isothermal mountain summit in Dakota with a mean temperature of zero degrees, while the base of these contours would be the isotherm of 50° swinging in almost a circle near the Pacific shore, the northern Mexican and Texas boundary lines. It is but little wonder that the Dakota and Montana plains, if fed by Pacific Ocean moisture, and being, as they are, a meteorological temperature summit, become the originating places of blizzards and storms that attend disturbances in that region.

RAIN-FALL IN CALIFORNIA.

That part of the Pacific slope west of the Sierra Nevada and Cascade ranges is the most highly favored with rain, and will claim our attention first. By consulting the charts the most noteworthy peculiarity is the summer droughts. Summer showers and thunder-storms occur, however, in the mountain regions of northern California, also in Oregon and Washington west of the Cascades. There is a general increase in frequency of summer rains from south to north, and the drought shortens in duration in the latter direction.

Frequently not a sprinkle of rain falls in the Sacramento or San Joaquin Valleys, nor in the southern counties, from May to October. This periodic division of rainy and dry weather

THE WESTERN STATES AND TERRITORIES.

during the year has brought into use the term wet and dry season, and reference to rain-fall measurements are generally understood to commence with the rainy season, and the term seasonal, instead of annual, is invariably the current estimate. In the great valley of California the expectation of rainless summers admits of the uninterrupted cereal harvest, its sacking and shipment to be made without fear of damaging rains. It is an ordinary sight, during the harvest season and after, to see millions of bushels of grain sacked and piled without shelter in fields or on open cars.

The line of greatest rain-fall difference occurs on the foot-hill region of the Sierra Nevada, skirting the Sacramento Valley; thence to the vicinity of Mount Shasta, and westward to where the coast curves southeastward near Cape Mendocino. This latter vicinity is designated a weather divide, and separates the wetter climate of Oregon from California. On the land it is marked by change in the character of vegetation dependent upon rain-fall, and at sea by a change from the calm pacific water to that disturbed more frequently.

The reason for this striking change in climatic conditions at this point is not so easily explained, and without distinct changes in the topographical conformation, to which most peculiarities of this nature may be attributed, appears puzzling. The forests would appear the result rather than the cause.

From careful observations of the climatology; and study of the tri-daily telegraphic reports while on duty on the Pacific coast, the conclusion forces itself upon my mind that it is in the main to be attributed to the cyclonic disturbances which occur on the coast north of Cape Mendocino. The cause of these peculiar manifestations within the atmosphere on the northern coast, rather than farther south, it is not my purpose here to discuss. It is perhaps sufficient to state that the cyclonic areas or barometric depressions which appear over the North Pacific during the months from November to April are extremely frequent and severe, while south of Cape Mendocino they are rare, and the effects felt there are those which are incident to the margin of these cyclonic areas rather than the front and eye of the storm.

To make plain to other than the professional student of meteorology, it may be remarked that it is universally accepted that all violent storms are great whirlwinds, called cyclonic areas, in which the wind blows in circuits around an axis. This axis is the eye or center of the storm and the circuit of motion is spirally inward and upward about the axis, contrary, in these latitudes, to the motion of the hands of a watch, and the nearer the center, generally speaking, the greater is the wind velocity and rain-fall. These areas here originate or move with the Japan current upon the Oregon and Washington coast, and there finding an abrupt mountain barrier, paralleling and very near the coast, its eastward movement is retarded and the area becomes flattened into an oval-shaped form by this physical obstacle. Being unable to pass this barrier, it wavers up and down or expends its force. But this requires time and the storm continues with the general disturbance, becoming stationary in this region, tarrying quite a period.

Now, considering the resulting wind direction on the south edge of the cyclonic area, thus hovering north of Cape Mendocino, it is found to be from the southwest. At sea this direction is maintained undisturbed. South of Cape Mendocino, where the coast line trends southeast, the southwest wind turned nearly southerly, sweeping up and against the coast, manifestly having the ocean temperature over which it has passed. Again, the wind over California is controlled by the great walled valley extending from northwest to southeast, and the wind over it becomes southeasterly and partakes of the temperature of the country over which it passes. This triple system of wind currents converging over northwestern California, bearing different temperatures and thrown upward over the elevations in that neighborhood, it is believed will explain the abundant downpour and other observed phenomena.

There is, however, a narrow strip of country contiguous to the coast, and on the western edge of the mountain ridge extending to the Santa Cruz Mountains, that is marked by the growth of redwood timber, which requires abundant moisture. Very few observations, however, tell us how much rain actually falls within this belt. It is altogether probable that the fogs contribute largely to the existence of this redwood strip.

A feature which attracts attention is the marked deficiency of rain-fall on the immediate seacoast, as instanced by the record at Farallon Island, Point Reyes, Cape Mendocino, and others. The deficiency at these places on points well out from the elevated land, if the rain-gauges are not influenced by exposure to strong winds, perhaps shows the necessity of a strong upward movement of wind, influenced by the incline of mountains or elevated bodies of land, to produce precipitation of any account. This being true, the line of equal rain-fall should return, skirting the coast, and thus show the diminution to seaward instead of the reverse, according to most published charts.

The fogs of the Pacific coast, though not generally included in considerations of rain-fall measurements, are so striking and produce effects so nearly related to rain-fall that they deserve remark. The temperature of the Japan current coming down from the North Pacific is almost uniform throughout the year. As the land becomes heated above or cooled below this sea temperature, the contrast resulting in close proximity creates these fogs. In the summer so wide is the difference that the comparatively cool ocean is lined with a wall of thick fog vapor, that rises 1,000 feet or over, rolling in upon the mountains, and, where a gap occurs, forms a river of fog, submerging everything in its path; broadening and branching, it follows up the valleys until dissolved by the dry air of the interior. These fogs add considerable moisture, and not infrequently five hundredths of an inch of water will be precipitated in a single night. This fog-fall is not considered as rain in the reports of the Signal Service. The effect of the moisture absorbed from these fogs doubtless adds materially to maintaining the growth of trees and plants in the district of their occurrence.

The climate of the country adjacent to the coast over which these fogs roll, and opposite the gaps in the Coast Range, or lower surmountable portions through or over which they move, is modified by the cooler ocean temperature and the sea winds of the summer carry much moisture. These effects are felt in the belts often a hundred miles from the ocean. Especially noteworthy are these effects felt opposite the Golden Gate, which is in sufficient strength to produce the growth of redwoods on the Contra Costa Hills, above Oakland, and create the so-called thermal belts and radically change the climate of localities where their influence is drifted by the prevailing winds.

Fogs of this character occurring in the southern part of the State and in the vicinity of Los Angeles are drifted in to a thousand feet elevation, occasionally reaching San Fernando and Colton. The strength of the dissolving hot air over the land surface determines the distance inland reached by these fogs. At night they reach farthest; the heat of the morning sun dissolves them, and in the afternoon they again roll inward as the heat diminishes by the retreating sun and rapid radiation.

California rains during the rainy season are not constant, but occur at intervals, the weather between the rains being beautiful and nearly cloudless. It consequently may be inferred that precipitation is not altogether the result of topographical features, but some other influence must operate. The cyclonic areas that hover over the northern coast have already been referred to, and it is found that most rains are simultaneous with their existence. These cyclonic disturbances, flattened by their impact against the mountain ranges, frequently reach far to the south, and perhaps often form subsidiary disturbances that, held off the California coast, are themselves unable to pass the mountain obstacles here presented. The winds brought thereby into motion favor the centralization of vapor-bearing clouds, or the transfer of volumes of moist air within the influence of altitude, cooler surfaces, and snowy mountains. In such a consideration the reason may be seen for the less precipitation in the great valley than on the surrounding foot-hills, and the still greater fall upon higher ascent. The diminishing rain-fall in the southern portion of the valley is explained as well from the fact that the south wind has already passed over a considerable range of mountains, and that the influences of the cyclonic disturbances are felt less and less the farther away from the center. In fact, it requires a most decided cyclonic development central off the mouth of the Columbia River to extend its marginal influence to southern California.

Supposing the cyclonic area west of the north Pacific coast a type of weather conditions resting some days in that vicinity, instead of moving and applying the ascertained rate of rain diminution from a study of many storms that occur in other parts of the world, this general decrease on the southeast side of cyclonic areas will not differ greatly from the general decrease on the Pacific coast from the Columbia River to the San Diego Bay.

It is necessary, therefore, that the rain fall should diminish from north to south, and that the general proposition that a change in the prevailing winds, as ordinarily understood, effects the

change from the dry to the wet season, or the reverse, must be doubted. The rains occur when the cyclonic disturbances appear with the increasing cold of the season. They increase from feeble to heavy rains as the disturbances become more decided. It is these disturbances that cause the wind to change to rain, bearing southerly, and when the opposite conditions, or anti-cyclonic, replaces the cyclonic the winds change to the northwest and the clouds pass away.

The strong, steady southerly winds that almost invariably attend rains from Puget Sound to Ballona Bay are peculiarly a fact of general observation. No sooner does the south wind set in than the rains begin to be continued steadily till the wind shifts. In the northernmost sections it begins always earlier than the next southward.

Another notable observation is the frequently sudden clearing away of the clouds. The aspiration induced, resulting in the periodic rains of this long belt of coast, must be attributed to cyclonic areas in the north; as well can the cessation of these winds and attendant rains be accounted for when the cyclonic areas escape, as it were, with a bound over the mountain range.

It is a noteworthy fact that the prevailing wind over California is westerly, and on the coast there results almost continuous monsoons, right from the sea, and it might naturally be asked if we are to attribute the rain to the wind, why these do not create some rain-fall, at least in the summer, when they are specially strong; much more might rain be expected during their winter occurrence. In the summer the explanation is derived from a consideration of the warmer land tem. perature, which absorbs or dissolves the moisture passing over it, and the further the interior is penetrated the greater the dissolving power. In the winter, however, the condition is changed into a cooler insular one and the winds passing into it should condense the moisture instead of dissolving it. But it is found that without a south wind precipitation is rare.

The prevailing direction of the surface wind in California, as ascertained from consulting records and noting the leaning of trees, is nearly as various as the localities of observation. Local winds assert themselves throughout the coast. In a general way they may be designated westerly on the coast; in the great valley, southerly in southern portion and northerly in northern portion. These variations exist at all times of the year, and it appears that to explain the rainy season by the changing of the prevailing wind direction is not so satisfactory as the principle of disarrangement of atmospheric equilibrium in the occurrence of cyclonic areas which change the wind to the southerly. Resulting from strong south erly winds, moist atmosphere is transferred to the cooler north or given an upward deflection; expanding, rises into the cold of elevation. With these causes in view, the difference in rain-fall still remains dependent on topography, altitude, proximity to the ocean, situation with reference to mountain chains, and latitude.

It may, however, be adhered to that the prevailing atmospheric movement is from the westerly, as shown from points sufficiently elevated to eliminate the local effect, and the cloud movement is observed to be quite regular from the west.

In the southern part of the State the Colorado and Mojave deserts result from the usual ascribed causes, added to the fact of their being entirely shut out by mountain chains from the influence of any atmospheric disarrangement. The coast portion of southern California, separated by a mountain chain rising quite high, divides the fertile from the desert country by a remarkably sharp line. The increase of rain fall from the sea-coast to the culminating ridge, which attains in Mount San Bernardino 12,000 feet, is due to increased elevation, as is the case over the ranges trending from here to the northwest. In this whole southern district the rainy period is short and the rain-fall small.

The table showing the greatest and the least rain observed at a number of stations in California shows the variation in different months and years.

BAIN-FALL IN OREGON AND WASHINGTON.

The system of mountains and valleys in Oregon and Washington Territory being similar to the district just discussed, the rain-fall differs but little except in amount. There is west of the Cascades distinctly a wet and dry season, as well as in California. The wet season is characterized by either down-pours or drizzly weather and the dry season by scattered showers. The periodic feature of rains continues near Vancouver's Island, and northward in a lesser degree, for at Sitka the rain is nearly equally distributed throughout the year.

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In discussing California, reference was made to the cyclonic areas that at intervals appear off the coast of Oregon and Washington. If the margin of these storm areas causes rain far to the south, it naturally follows that much more will it characterize the region nearer the center of disturbance. Upon investigating the relation of rain areas to storm centers it has been determined that the centers of the rain areas are in advance, and, like the isobars representing the storm depression, are elliptical with the longer axis, taking the same direction as that of the longer axis of the cyclonic disturbances. From observation of meteorological reports of the Pacific coast the tendency to the advance of these areas of low barometer, and hovering, as they do, in North Pacific for quite a period, disclose a feature not generally considered and one believed to account largely, at least, for the climate and great rain fall of this region. Whether these cyclonic areas over the Japan current resemble in their origin and movement those that follow the Gulf Stream across the Atlautic can not now be satisfactorily discussed, but only the similarity in effects upon the western coasts of America and Europe remarked.

The general favorable conditions, as before noted, in parts of California concerning the influence of cyclonic areas in bringing the rain-bearing ocean winds from warmer to cooler latitudes and the mountain range near the coast to deflect the wind currents upward, also operate in Oregon and Washington, except in greater strength. There are, however, occasional showers occurring during the summer season, that must be accounted for by the existence of prevailing ocean winds and currents, close mountain summits wrapped in snow, electrical and other causes, aside from the aspiration of cyclonic areas, which are quite absent in summer.

By consulting the data from the stations near Puget Sound and Straits of Fuca there is seen to be a wonderful contrast between the scantiness of rain at Port Townsend and Port Angeles with its abundance at Neah Bay and Tatoosh Island. Location largely accounts for the extreme rain-fall of the two last-named places; however, there is a winter increase in the percentage of deviation of rain at these places between July and January that would appear to permit its being attributed to other than entirely local influences. When the local influence is considerably overridden by cyclonic effects we could expect the rain differences in the two localities at different seasons to become less, which accords with the facts disclosed by the data.

This instance of such an enormous rain fall at Neah Bay and the difference between it and other points near by call for special reference. The records can not be doubted, because taken by careful scientists of the U.S. Coast Survey or by the U.S. Signal Service. The record at Neah Bay is the greatest of any point in the United States, averaging 111 inches and known to have reached 132 inches in twelve months, and in one day 6.90 inches. This extraordinary precipitation about Cape Flattery is due mainly to the current of wind up the coast meeting the wind down the straits, with the two ocean streams that impinge upon the outlying peninsula. One, the Japan current, comes from the northwest; the other sweeps along the immediate coast line of Oregon and Washington towards the north. The heavy rains in this vicinity invariably accompany a south wind. A portion of this wind follows the northerly ocean current; another part passes over the land, taking the channel of least resistance, which is the depressed country lying between northwestern Oregon and Puget Sound, the whole becoming like a great river of warm air with two branches, the lesser being over the land surface. This current, moving down over the Puget Sound Basin, but passing over a rougher surface than that along the shore-line, is retarded, and after debouching as a southeast wind upon the waters of the lower sound and flat country near Port Townsend, it is drawn down the Straits of Fuca as a southwest wind. Overtaking the main coast wind, these air streams, now with somewhat different temperatures, are blended together over the vicinity of Cape Flattery, and great condensation takes place.

The degree of shelter a place has may account for the difference in Tatoosh Island and Neah Bay records. The rapid wind current passing over the gauges may in part account for-the reduced records at Tatoosh Island and near Port Townsend. At Crescent City, Cal., for instance, two gauges, one somewhat sheltered and the other well exposed, give records widely different, though they are very near each other.

The Olympia Mountains undoubtedly contribute some effect, as also the tide which transfers alternately cold and warm water to the vicinity, equalizing the temperature of the inland waters of Puget Sound. It may not be amiss to note the character of the mountain summits of some prominent peaks in Oregon and Washington as influencing the summer rains. Mounts Hood, Saint Helen, Baker, Ranier, and others are notably above the limit of perpetual snow. During the summer their influence for this reason forms a striking contrast to the mountains in Arizona, which will be observed later.

East of the Cascade Mountains the wet and dry seasons are also noticeable, especially in the Columbia Basin. Rain rarely falls before the middle of October. Grain may be observed after harvest, as in California, piled in the fields, and is considered perfectly safe.

RAIN-FALL IN IDAHO, UTAH, AND NEVADA.

The entire arid country east of the Sierra Nevada range, except the plateau country of Arizona, possesses features so similar that it can all be described together.

It has been supposed that the country inclosed by these two mountain ranges, except perhaps the extreme northern portion, possesses the characteristics of a country having equally distributed rains throughout the year, instead of a periodic occurrence. The averages in the tables disclose the error of this generally accepted idea. Not only is this shown for the northern portion of this arid area, but for the stations in the Mojave and Colorado deserts. It is true the summers are not altogether rainless, as showers visit the basin district and become more pronounced in the mountains.

Considering the sources of the water of the Colorado and Columbia Rivers, it is evident that they come from the mountains, and not from the plateau valleys through which they flow. The Great Basin of Utah and Nevada has insufficient water falling within it to require a channel to carry it to the ocean, but it is absorbed by the sands and saline lakes. The actual amount of precipitation that occurs on the mountains is even impossible to closely approximate, but it is plainly considerable.

The occurrence of increased rain-fall from south to north is attributed, in the main, to nearness to the field of cyclonic action. These cyclonic areas seldom, if ever, pass below Salt Lake, but north of which they are not so infrequent. Having either formed over the basin or areas whose progress the Cascade Mountains have failed to arrest, the mountain wall of the Sierra Nevada and Cascades should, if everywhere equally elevated, offer an equally potent influence to deplete the moisture from the ocean winds. The summit ridge, however, not being of equal elevation, more moisture enters this area from some points of its western boundary than others, but the effect of a moisture stream through such a gap as exists in southern California is not apparent in rain-fall, and the reason is that it does not pass over again any elevated mountains, or seldom, if ever, comes within the influence of cyclonic areas.

During the summer there is manifest in the mountains of New Mexico and Arizona from the heavy rains of this period the existence of much moisture, carried undoubtedly from the Pacific Ocean over some mountain depression. In a consideration of this kind the matter of vapor depth must not be overlooked. A mountain wall like the Sierra Nevada and Cascade ranges holds back, perhaps, one-half the moisture, because the vapor decreases upward, and at least one-half of the whole is found below 6,000 feet.

The area between the main Rocky and Sierra ranges is comparatively a dry one, adapted principally to grazing. In the level valleys of running streams irrigation will produce the most prodigal yield of crops. This entire area, however, is shown to be much more favored with rain than was supposed a few years ago, when it was very inappropriately called the Great American Desert. The pioneers into this country little imagined that its dry-looking mountains and plains would soon become the feeding place of millions of cattle, and the valleys could be transformed by water into places delightful to every sense. The peculiar grasses of this region do not appear to require more than an occasional light shower and the melting snow that has fallen during the winter season. This area is rough and elevated—a series of basins within an arid surface, with salt lakes and salt, sandy plains in every part that in the heat have the mirage sea appearance. None of the stations recording rain in this area are at greatly elevated points, as the railway

RAIN FALL OF THE PACIFIC COAST AND

lines along which the records are taken always seek the valleys and low places. The season of greatest precipitation in this area is during the winter months, which occurs largely in the form of snow on the mountains.

RAIN-FALL IN ARIZONA.

In the plateaus of Arizona the rainy season comes in the summer months, the explanation of which will be undertaken. The first suggestion of this explanation came from observations of the San Francisco Mountains during a scouting trip in May, 1887. The report then made is reproduced here with some additions. The attempts at the explanation of the summer rainy season in Arizona have never been satisfactory. Observation and study of the San Francisco Mountain led to the explanation which will follow, and perhaps, when considered in connection with the general features of Arizona, may be made to explain the cause of the summer rains all over the Territory, in New Mexico and Sonora. The mountains in Arizona occur generally in groups and, if considered as lying above a certain plain, would appear like islands in an archipelago, so scattered are they over the high plateaus. Considering the San Francisco Mountains only, the rains are said to commence about the middle of July, some years, however, earlier and others later. Old residents about the mountain assert that there is a relation between the commencement of the summer rains and the amount of snow upon the mountains. When the snow is less than usual the rainy season begins earlier, and later when an unusual amount of snow has fallen. The Indians call the San Francisco or Agassiz Peak the "mount that sits on the clouds" and Do gho slee, or weather-maker. In these traditions it is the source of weather changes and the residence of their weather god. They say when the mountain is bare this god becomes thirsty, but when surrounded by snow he drinks from the melting snow banks. The Supai Indian medicine-men understand the matter apparently, for they will promise that they will make the rain commence at a certain time, and it seldom fails to come as promised. By their rain dances and other forms of worship of their weather god they tell their people he has promised, owing to satisfaction with their worship, at a certain time the clouds will gather and rain come. It is further related that much of the illsuccess of the Christian missionaries with the Supai Indians about this mountain is owing to their inability to influence and predict rain, and the Indians are thus credulous.

From any Arizona map the San Francisco Mountains appear as an isolated group, rising about a mile above the plateau of which it is the apex. At some seasons it can be seen within a radius of some 200 miles as a snow-covered peak, glistening, grand, and beautiful above the dry country around it.

It is known that the temperature decreases with elevation. On account of this temperature diminution with elevation, snow covers mountains when not a trace is seen at lower levels. On mountain sides the snow-line gradually ascends with the advancing heat of summer, and when the elevation of a mountain is so great that the summer mean of any portion does not rise for any length of time above freezing, it becomes perpetually covered with snow. The San Francisco Mountains do not rise high enough to become perpetually snow-covered. This being the case, they receive a new coat of snow each winter, which varies with the season every year and is sometimes great, in other winters small. It is now seen that in the summer months these mountains approach bareness sooner or later, according to the amount of snow which falls upon them during the previous winter. So long as the snow remains the decrease in temperature up the mountain side is equal, or nearly so, to the decrease with elevation. The radiation from a white cloak of snow does not favor the warming of the mountain, and it is possible that the heat received on a white mountain surface differs little from the heat absorbed by the atmosphere at equal elevations. While the snow remains the level strata of air at equal elevations over the plateau and on the mountain sides can be conceived to differ but slightly and so continues while the snow lasts. When the snow fallen during the previous winter is much less than usual the mountains become bare earlier. When barren of snow a change, sudden and marked, occurs.

The dark mountain surface absorbs that, and the insolation being even greater at the summit, the mountain becomes a heated pyramidal body, reaching high above the surrounding plateau surface. The strata of air of equal temperature that over plane countries may be supposed to be level become in such a case at once disturbed.



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In profile over level countries those lines showing isotherms of elevations would be nearly horizontal, and a cross-section thus shown of the changes in temperature with elevation, but over an isolated mountain summit when the mountain is covered with snow, those lines will be level or perhaps dip downward to the mountain surface; but when bare, and during summer, the line will curve upward, the lower ones pro bably touching the flank of the mountain, at first low down, but higher and higher with the season. The sectional view of the temperature changes after the mountain has become well heated would show the lines of equal temperature curving upward and finally, perbaps, over the mountain. As the heated air ascends the mountain becomes, as it were, a convecting flue, affording an easy channel upward for great amounts of air to be suddenly lifted to a high elevation. When expanding, cooling, and condensing, the upper currents distribute the rain over the plateau, and especially on the side opposite the prevailing wind current.

The application of the foregoing principle may perhaps lead to accounting for the heavy summer rains all through Arizona, where detached ranges and mountain groups exist.

Throughout northern Mexico, in Arizona, and New Mexico the phenomena of profuse local summer rains are everywhere observed, which fill the natural high tanks, which accumulate and preserve the water. Though between the mountains narrow, desert-like valleys exist, this singular provision for rain distribution will at no distant day be utilized and these plentiful supplies of mountain rains made to flow over the rich lands and yield bounteously all semi-tropical products.

The river valleys of southwestern Arizona receive but little rain, indeed, but the water-courses through them, rising in the mountains, where abundance of rain falls two seasons of the year, bring sufficient to supply this want, and assures, to my mind, the future of this comparatively unknown section of our country.

RAIN-FALL OF THE PACIFIC COAST AND

WASHINGTON TERRITORY.

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

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No.	Name of station.	County.	Lat. itude.	Lon- gitude.	Eleva- tion.	Length.	From	To (inclu- sive) —	Remarks as to observers and miss- ing records.
1 2 3 4	Whatcom Fort Bellingham.	Whatcomdo do do Stevene	o / 48 59 48 45 48 48 48 57	o ' 122 45 122 29 122 30 117 55	Feet. 11 88 2, 800	22	Dec., 1875 June, 1857	June, 1860 Aug., 1876 July, 1859 Feb., 1880	 U. S. post bespital. Mrs. A. E. Smith. U. S. post hospital. U. S. post hospital. Record much broken. Mar., Apr., 1863; Ang., 1864, to Sept., 1866, inclusive; Dec., 1867; Feb. to Apr., 1868, inclusive; Dec., 1868; Feb., Sept., 1869; Ang., 1872; Feb., 1873.
5	San Juan Island	San Juan Skagit.†	48 28	123 01	150	94	Jan., 1864	Dec., 1874	 L.S. post hespital. Record much broken. Feb. to Apr., 1865, inclu- sive; June to Nov., 1865, inclusive, May to Aug., 1866, inclusive; Nov., 1873; Sept., Oct., Dec., 1873; Jan., July, Oct., 1874.
6	Tatoosh Island	Island.† Clallam	48 25	124 30	90	6 10	Apr., 1869	Nov., 1837	A. Sampson, Signal Service. Record much broken. June, July, 1869;
7	Nesh Bay	do	48 22	124 37	40	69	May, 1863	Nov., 1887	Feb., 1872, to Sept., 1883, inclusive. James G. Swan, Thomas Stratton, Signal Service. Record much broken. Oct., 1864; Oct., 1866, to July, 1874, inclusive; Aug., Sept., 1874; Feb., 1875, to Oct., 1878, in- clusive; Aug., 1881, to Nov., 1888, inclusive; Mar. to Aug., 1887, in-
8	Pysht	do	48 15	124 03	· • • • • • •	3 4	Dec., 1883	Nov., 1887	clusive. Signal Service. Apr. to July, 1887,
9	-	do	48 07	123 30	•	4 9	Apr. , 1881	Nov., 1887	inclusive, and Sept., 1887. Thomas Stratton, Signal Service, Jan., 1882, to Nov., 1883, inclusive.
10	Port Townsend	Snohomish.† Jefferson Douglas.†	48 07	122 45	16	56	Jan., 1859	Dec., 1886	Thomas Stratton. U. S. post hos- pital. Record much broken. July to Dec., 1859, inclusive; Mar. to Nov., 1860, inclusive; Mar., 1868; to Oct., 1867, inclusive; Mar., 1868; Aug., 1863, to July, 1873, inclusive; Apr., Sept., 1881.
11	Fort Spokane	Lincoln.† Spokane	47 50	118 15		8 11	Oct., 1883	Aug., 1887	Signal Service and U. S. post hos-
12 13 14 15 16	Blakely Ellensburgh Seattle	do Kitsap Kittitass King do Chebalis.t	47 40 47 00	117 25 122 32 120 30 122 20 123 35		2 3	Feb., 1881 Feb., 1878 Feb., 1884 July, 1877 July, 1887	Dec., 1887 Dec., 1887 Apr., 1886 June, 1878 Dec., 1887	pital. Signal Service. R. M. Hoekinson. George W. Parrisb. R. M. Hoekinson. F. A. Carpenter.
17 18	Olympia New Tacoma	Mason.† Thurston Pierce	47 05 47 15	1 22 50 122 30		10 6 3 8	July, 1877 Jan., 1884	Dec., 1887 Dec., 1887	Signal Service. Northern Pacific R. R. Feb., Apr.,
19	Fort Stellacoom	do	47 11	122 84	300	22 2	Nov., 1849	Feb., 1896	May, Oct., 1884. U. S. post hospital. Record much broken. Jan., 1852, to Dec., 1859, inclusive; Nov., 1861; Aug., Sept., 1865; May to Aug., 1866, inclu- sive; July, 1867; Apr., 1868, to Sept., 1873, inclusive.
20 21 22 23 24 25	Ainsworth Colfax Almota Fort Simcoe Kennewick Fort Canby	do do do do do	46 55 48 45 46 25 46 15 46 17	117 25 117 29 120 50 119 10 124 03	200	0 9 2 2 2 4 2 0 2 1 18 9	Feb., 1884 Apr., 1881 Mar., 1881 Apr., 1857 Nov., 1854 Aug., 1864	Apr., 1859 Dec., 1886	A. W. Gray. Signal Service. Do. U. S. post hospital. Dec., 1857. A. W. Gray. Aug., 1885. Signal Service and U. S. post hos- pital. Record broken. Nov., 1864; Aug., Sept., Dec., 1865; Jan. to Aug., 1866; Inclusive; Dec., 1877; July, 1868; May, 1869, to Apr., 1871, inclusive; June, 1871; Aug. to Dec., 1872, inclu- sive; July to Nov., 1873, inclusive; May, 1874.

† No data.



THE WESTERN STATES AND TERRITORIES.

WASHINGTON TERRITORY-Continued.

Record. Remarks as to observers and miss-ing records. Lat-itude. Lon-gitude. Eleva-tion. No. Name of station. County. To (inclu-sive)— Longth. From-۰ , • , Feet. Yrs. M. Lewis.† Franklin.† Garfield Walla Walla..... Signal Service. J. Straight, U. S. post hospital. Signal Service. Record broken. Mar., July, Aug., 1862; Mar., 1863; July, Aug., 1864; Aug., 866; Aug., 1865, to Nov., 1866, inclusive; June, 1867, to Dec., 1869, inclusive; Feb., 1870, to Dec., 1872, inclusive. Signal Service. June, 1883 Mar., 1887 46 30 46 06 117 35 118 24 2 1 June, 1881 6 1 Jan., 1857 26 27 Pomeroy...... Walla Walla..... 865 Columbia...... Astoria.t Wahkiakum..... 46 17 117 59 Dec., 1879 Nov., 1885 28 Dayton 6 0 Charles McCall. Record much broken. Jan. to May, 1872, in-clusive; Oct. to Dec., 1873, inclu-sive; Oct. to Dec., 1874, inclusive. 29 Cathlamet 46 15 123 12 40 2 5 Dec., 1871 Aug., 1876 Cowlits.† Skamania..... Klikitat.† Clark 121 30 30 Fort Cascades ... 45 35 50 3 1 May, 1858 May, 1861 U.S. post hospital. T. A. Whitcomb. U. S. post hospital. Record much broken. Apr. to Dec., 1851, inclu-sive; July to Sept., 1852, inclu-sive; Jan, 1854; July, 1855; July, 1857; Jan., Mar., Aug., 1865; May to Aug., 1866, inclusive. 0 6 Jan., 1872 June, 1872 16 11 Dec., 1849 July, 1868 Union Ridge..... Fort Vancouver. 45 45 50 40 122 45 122 30 81 32 50 ...do

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

† No data



WASHINGTON TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			Januar	у.		1	:	Februar	у.		ĺ		March	•	
Name and number of station.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.		mu m .	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs
Camp Semiahmoo			• • • • • • • • •		• • • • • • •	2.68		••••••		•••••	4.10	6. 22	1859	1.98	186
Whatcom	4.31	0.70	1050	0.00	1070	8.25		1070			6.92	· · · · · ·		· · · · · · · · · · · · · · · · · · ·	••••
Fort Beilingham	3.04	3.72	1858	2.36	1859	2.59	3.43	1858	1.76	1859	3. 52	4.29	1859	2.75	185
Eort Colville	2.37	10.45	1875	1.54	1876	1.47	3.11	1879	0.60	1870	1.48	6.16	1875	0.75	187
San Juan Island	3.31	5.60	1867	0.95	1869	2.80	4.50	1867	1.05	1869	2.18	7.50	1873	0.28	186
Tatoosh Island	15.00	20.50	1871	10.95	1870	10.02	13.28	1885	6 04	1884	9.50	16.36	1887	2.34	188
Neah Bay	17.49	25.70	1880 1885	8.30 11.29	1855 1884		21.01	$1881 \\ 1885$	9.30	1855	11.41	23.83	1879	9.33	18
Pysht	5 08	14.31	1885	4.01	1884	3 98	4.68	1887	7.81 2.98	1886 1886	3.96	12.43 3.65	1887	1.90	18
Port Angeles Port Townsend	2.47	3.62	1878	0. 66	1859	1. 69	3.94	1879	0.37	1886	1. 73	3.99	1887 1875	0.68 0.11	18) 18)
Fort Spokane		1,86	1886	0.29	1885	0.78	1.40	1885	0.41	1886	0.68	1.35	1887	0.00	18
Snokana Falla	2.67	4.54	1882	1.79	1884	2. 37	3.85	1881	0. 61	1886	1.24	2. 50	1887	0.72	18
Blakely	6.46	11. 65	1880	3. 51	1887	5.98	10. 30	1881	1.96	1886	5.03	13.70	1879	0.77	18
Ellenshurgh	1.76	2.62	1886	0.90	1885	0. 91	1.98	1884	0.30	1886	0.29	0. 62	1884	(T)	18
Seattle	5.98					10.22					5.17			· · - /	10
Blakely Ellensburgh Seattle Vashon †															
Olympia	8.72	19,69	1880	5.47	1884	8.35	16.28	1881	3.18	1883	5.39	14.44	1879	0.50	18
New Tacoma	5. 91	7.71	1886	4.93	1884	3.48	4.16	1885	2. 29	1886	4.56	6.10	1885	1.01	18
Vashon Y Olympia New Tacoma Fort Steilacoom	6.08	15.30	1851	1.37	1868		16.68	1867	1.00	1868	4.92	7.40	1867	0.00	18
A105w0160						1.62		,	.	 .	0.43				
Uolfax	3.58	4.32	1883	2.84	1882	2.32	8.49	1882	1.16	1883	1.72	1.73	1883	1.70	18
Almota		1.15	1883	0.45	1882	1.58	2.88	1882	0.28	1883	1.29	1.74	1883	0, 92	18
Fort Simcoe		2.50	1859	2.11	1858	2.87	4.54	1858	1.19	1859	1, 22	1,38	1859	1.06	18
Kennewick	1.30	2.10	1886	0.51	1885	0.34	0.49	1885	0.19	1886	0.16	0.27	1886	0.04	18
Fort Canby	9.10	22.28	1880	4.19	1875		15.08	1879	4.37	1865	7.78	15.68	1878	1.15	18
Pomeroy	2.21	3.23	1883	1.19	1882	1.76	2.48	1882	1.05	1883	2.00	2.96	1883	1.05	18
Walla Walla		11.63	1862	0.06	1863		10.30	1862	0.11	1863	I.48	3.90	1859	0.10	18
Dayton		5.48	1883	2.29	1885	3.99	6.16	1882	1.17	1883	1.66	2.44	1883	0.05	18
Cathlamet		15.80	1873	8.30	1875	7.05	9.90 11.06	1876	4.60	1875	13.98	18.50	1875	6.20	18
Fort Cascades		10. 5 9	1862	7. 36	1860		11.00	1861	6.61	1860	7.47	13. 83	1859	2.90	180
Union Ridge	6.05	12 90	1855	0.86	1866	11.38 5.58	6.90	1858	0.89	1866	5.95				10
Fort Vancouver	5,96	13.29	1000	0.00	1000	0.00	0. 30	1000	0.00	1000	3.87	9.60	1859	0.97	186
	÷					1									
			April					Мау.			1		June.		
Name and I supervised of stability															
Name and number of station.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yre.	Ins.	Ins.	Yrs.	Ins.	Yrs,	Ins.	Ins.	Yrs.	Ins.	Yre
Camp Semiahmoo	2.13	2.13	` 1860	2.12	1859	1.84	2.00	1860	1.69	1859	1.42	2.08	1860	0.75	18
Whatcom	1.00				1050	1.50		1050			1.88				
Fort Bellingham		2.69	1858	1.52	1859	1.78	1.94	1859	1.21	1858	1.19	1.46	1859	0.75	18
Fort Colville		1.90	1879	0.00	1878 1874	1.73	3.16 4.05	1877 1873	0.84 0.23	1875	1.38	3. 44	1877	0.22	18
San Juan Island	1.74	4.50	1873 1887	0.31	1885	5.74	12.09	1871	1.39	4870 1869	3.58	25.75	1873 1871	0.06	18 18
Tatoosh Island		11.70	1866	3. 52	1880	4, 18	7.14	1879	1.27	1864	3. 70	7.50	1866	1.27	18
Neah Bay Pysht		4.49	1886	1.13	1885	2.45	2.90	1884	1. 81	1886	2.35	2, 55	1884	2.17	18
Port Angeles		2.67	1886	0.71	1885	1.22	2.11	1887	0.65	1884	1.13	1.75	1884	0. 67	18
Port Townsend		2.98	1883	0.12	1875	1. 47	3. 40	1885	0.63	1882	1.30	2.62	1868	0.15	18
Fort Spokane	1.00	1.82	1887	0.10	1885	0.84	1.55	1885	0.00	1884	1.31	2.20	1867	0. 89	18
Snokane Falla	1.51	2.84	1882	0.27	1885	1. 17	2.11	1883	0.50	1881	1.66	3.40	1885	0.57	18
Blakely. Ellensburgh	3.08	5.96	1883	0.25	1885	2.59	5.00	1879	0.55	1884	1.34	3.40	1879	0.12	18
Ellensburgh	0.76	1.26	1884	0.03	1885	0.68	1.18	1885	0.17	1884	0.52	0.57	1885		
Seattle	2.15					3. 25				. 	0.36				
Vashon†		• • • • • • •			 .			. 							
Olympia	3. 80	10.78	1883	0.39	1885	2.84	4.72	1879	1.36	1878	1.15	1.93	1881	0.21	18
New Tacoma	2.70	3.97	1887	0.47	1885	2.72	3.42	1887	1.84	1886	1.34	2.81	1884	0.49	18
Fort Steilacoom	2.87	6. 74	1867	0.26	1857	1.67	3.85	1858	0.39	1864	1.58	4. 93	1861	0.25	18
Ainsworth	0.67				. 	0. 07					0.90				
Colfax	2.34	3.02	1882	1.67	1881	1.06	1.20	\$1882	0.77	1881	0.60	1.08	1881	0.12	18
		1				11		{ 18835			1				
Almota Fort Simcoo	1 77	2.71	1882	0.95	1883	1.04	1.57	1883	1.60	1881	0.25	0.70	1881	0.01	18
		0.50	1859	0.00	1857	0.29	0.54	1858	0.04	1857	0.26	0.48	1858	0.04	18
Kennewick	0.10	0.20	1886	(T)	1885	0.72	1.38	1885	0.05	1886	0.62	0.93	1885	0.30	18
Port Callby	4.08	8.30	1868	1.07	1873	3.16	9.02	1875	0.70	1873	2.26	6.25 0.27	1874	(T)	18
Walla Wella	1 24	2.41 2.38	1882	1.36	1883	2.10	2.37 5.78	1883 1862	1.83	1882	0.64	2.78	1882	0.02	18 18
traile Walla	9 80	2.38 4.08	1859 1882	0.11	1863 1885	2.08 1.99	3.08	1862	0.08	1863 1881	1.20		1862 1885	0.00	18
Cathlamat	4 05	6.50	1876	3.00	1974	3.68	5.30	1875	1.60	1873	2.72	2.20 4.50	1875	0.08	18
Kennewick Fort Canby Walla Walla Dayton Cathlamet Fort Cascades	1, 93	8.87	1861	3.14		4.51	5.50	1860	2.43	1859	1.70	3.40	1858	0.63	18
Union Ridge	3.50	0.01	1001	0.14	1008	1.60	0.02	1000	2. TU	1000	1.82	0. 10	1000	0.00	10
			1050	0.37	1957	2. 36	5.44	1861	0.50	1850	1.94	3.26	1054	0. 16	18
Union Ridge	. 2.47	6.56	1852	0.01	1001	11 2.00	0.77	1001	0.00	1004	1.04	0.20	1856	0.10	TC



WASHINGTON TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

	1		July.					Augus	t.			s	eptemb	er.	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Max	imum.	Mini	mum.	A ver- age.	Мат	imum.	Maxi	mum.
1, Camp Semiahmoo		<i>Ins.</i> 0.54 3.74 1.37 6.52 6.10 1.83 0.56 1.51 0.66 2.25 2.55 1.16 2.62 1.80 1.51 1.20 0.79 0.11 0.077 7.00 0.57 2.44 1.60 1.24	Yre. 1859 1878 1867 1886 1887 1886 1887 1884 1879 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1884 1879 1876 1879 1876 1877 1876 1879 1876 1877 1876 1877 1876 1879 1877 1876 1877 1876 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1876 1877 1877 1877 1876 1877 1877 1876 1876 1877 1876 1876 1877 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1860 1876 1860	Ins. 0.33 0.86 0.06 0.07 0.33 0.86 0.05 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.14 0.00 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.00 0.30	Yrs. 1857 1876 1872 1885 1885 1885 1885 1885 1885 1883 (1887) 1883 1883 1883 1883 1883 1883 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1887 1877 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977	Ins. 0.60 0.62 1.20 0.55 2.81 1.00 0.65 2.51 1.00 0.65 0.70 0.23 0.73 1.90 0.43 0.36 0.43 1.04 0.35 0.43 1.04 0.35 0.43 1.00 0.43 1.00 0.43 1.00 0.43 1.00 0.55 1.92 0.55 1.92 0.55 1.92 0.94	<i>Ins.</i> 2.16 1.43 5.49 2.12 2.12 1.94 2.12 1.94 2.12 1.26 (T) 2.11 2.11 2.11 2.11 2.11 2.11 2.11 2.1	Fre. 1858 1877 1874 1874 1874 1884 1879 1887 1881 1884 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1879 1874 1875 1874 1875 1877 1874 1878 1877	Ins. 0.24 0.30 0.02 0.12 0.00 0.00 0.00 0.00 0.00 0.02 (T) 0.00 0.00 0.02 (T) 0.00 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.	Yrs. 1857 1876 1872 1876 1872 1885	Ins. 3.91 2.23 0.49 1.68 5.58 7.09 6.00 1.73 0.93 1.29 2.11 0.36 4.10 1.85 3.10 2.57 0.67 1.14 0.25 3.37 0.82 0.99 0.08 1.52 5.65	Ins. 2.81 1.74 3.25 5.79 9.60 13.30 9.44 3.25 4.27 0.39 6.64 4.27 1.49 2.55 4.27 0.39 1.49 2.55 0.41 8.421 4.72 1.66 2.17 0.39 1.18 4.21 1.18 4.31 1.18 4.31 1.17 4.77 1.18 4.31 1.18 4.31 1.17 4.77 1.18 4.31 1.18 4.31 1.77 1.18 4.31 1.77 1.18 4.31 1.77 1.75 1.49 1.75 1.49 1.49 1.75 1.49 1.49 1.75 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.47 1.47 1.47 1.47 1.477	Yre. 1867 1877 1874 1885 1877 1885 1885 1885 1877 1871 1862 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874 1874	Ins. 1.66 0.36 0.10 8.30 2.50 4.17 1.15 0.16 0.47 0.08 0.75 0.83 1.08 2.12 0.30 0.62 0.05 0.36 0.99 0.50 1.88	Yrs. 1858 1879 1868 1869 1866 1887 1882 1883 1883 1884 1884 1884 1886 1886 1886 1886 1886 1887 1882 1886 1866 1867 1866 1867 1866 1867 1866 1867 1866 1867 1866 1867 1866 1867 1866 1867
31, Union Ridget	1. 32	8.35	1850	0. 00	1854	0. 52	1. 72	1854	0.00	{1850 1855 1867	1.65	4. 37	1858	0.00	1854

		October	г.		Novemb	er.	:	Decemb	er.		Year.	
ame and number of station.	Aver- age.	Maximum.	Minimum.	A ver age.	Maximum	Minimum.	Aver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimur
Camp Semiabmoo		Ins. Yrs.	Ins. Yrs.	Ins. 2.57	Ins. Yrs.	Ins. Yrs.	0.00	Ins. Yrs.	Ins. Yrs.	Ins. 33. 62	Ins. Yrs.	Ins. Y
Whatcom		·		1			3.00					
Fort Bellingham.		2.39 1858	2.02 1857		4. 03 1858	2.70 1857		6.92 1857	5.49 1858	29.66		
Fort Colville		4. 18 1875	0.77 1878	1.86	4.72 1876	1.03 1879	1.49	2.70 1875	0.60 1878	16.15	28. 66 76-77	
San Juan Island .		8.25 1866	0.30 1869	3.98		1.28 1873	4.73	9.00 1872	1.30 1865	28. 34	37.44 66-67	
Tatoosh Island		' 9.0 3 1884	1.50 1869		20.70 1869	2.32 1887	14.60	25.84 1886	10.14 1885	94.42	12.86 86-87	
Neah Bay		13. 20 1863	3.50 1864		27.60 1865	1. 40 1874		27.30 1863	8 48 1878	105.25	140.90 65-66	
Pysht	6.74	9.53 1884	4.85 1886		13.07 1885	3.54 1886		21.61 1886	5.35 1884	67. 21	25.41 85-86	59. 51 84-
Port Angeles		4.23 1885	1.88 1886	3. 08	4.52 1887	1.46 1886	4.21	7.71 1886	3.07 1885	28.56	32. 35 86-87	26. 83 84-
Port Townsend		2.61 1886	0.36 18/4	, 2.26	4.42 1875	0.39 1874	2.42	6. 18 1880	0.67 1874	18.47	21.66 75-76	11. 66 73-
Fort Spokane	2. 13	3.00 1885	1.55 1883	0.98	2.07 1885	0. 19 1884	1.49	3.83 1886	0.43 1884	11.84	15.47 86-87	
Spokane Fails	2.07	4.81 1882	0.80 1885	1.92	4.25 1885	0.59 1884	2.58	3.87 1886	0.21 1883	19.82	24.03 81-82	15.91 85-
Blakely	3, 76	6. 20 1884	1.45 1887	4.78	1 9. 27 1878	9. 27 1880	7.93	17. 25 1879	3.27 1878	44.83	65.03 78-79	
Ellensburgh		0.71 1884	0.06 1886	0,92	1.69 1885	0.16 1884	1.81	2.07 1884		8.97		
Seattle	3.25	1		8 70			4.40			50.03		
Vashon	1.50		1	3.20			10. 67					
Olympia	4.73	8.18 1881	7. 51 1887	6.85	19.88 1877	1.37 1884		16. 66 1880	5.14 1883	56.08	81. 28 77-78	34 97 84
New l'acoma	2.56	3. 78 1886						10.26 1887	4.88 1884	38, 86	53. 75 86-87	
Fort Steilacoom	3.05		0.67 1865			0.88 18.2		13.01 1857	2. 62 1850	40.96	55. 13 57-58	21 17 50
Ain-worth	0.56			0.00		0.00 10 1		10.01 1001		40.00	1	
Colfax	4 78	6.81 1882	2.75 1881	2. 10	2. 59 1881	1.60 1882	4.60	6.42 1882	2.79 1881	25. 31		
Almota	2.61	3. 37 1882	1. 95 1881			1.20 1881	2.00		1. 41 1881	14.59		
Fort Simcoe		0.83 1858	0 32 1857	0.79		0. 73 1857	0.95	0.95 1858	1. 41 1001	10.61		
	0.72	1. 17 1886	0. 26 1875		6.99 1885			2,28 1886	0.86 1884	7.06		
Kennewick	6.23	14.80 1867	1.00 1874			3.58 1880			2.80 1876		86. 67 66-67	1
Fort Canby	2.86	3, 76 1882	1.96 1881	1.60	1.63 1881	1.56 1882		5.46 1882		67.68	80.01 00-01	00.24 88-
Pomeroy			0.05 1862						2.14 1881	20.33	00 08 40 01	
Walia Walla	1.48	2. 44 1860				0.00 1862			0.04 1862	20.69	28.96 60-61	
Dayton	2.54	4.41 1882	1.23 1885			0.25 1884		7,93 1880	2. 37 1881	26.76	30. 12 80-81	
Cathlamet	5.30	8.50 1875	2.10 1872		13.00 1875				3.00 1875	71.24	76. 00 75-76	
Fort Cascades	5.15	5.78 1858	4.38 1839	9 8.84	12.95 1860	7. 20 1859	6.05	8.13 1858	4.13 1859	64. 64	67.10 58-59	154. 10 5 0 -
Union Ridget				1 		1			1			
Fort Vancouver	2.38	4.81 1856	0.68 1865	5. 14	11.57 1855	0.85 1862	7.18	16.04 1867	1.20 1850	38. 37	45. 65 57-58	*22.29 66-

* Seasonal rain-fall, September to August, inclusive. (1) Frequently. † No data. (*) Generally. (T) Trace of rain-fall. S. Ex. 91----5

RAIN-FALL OF THE PACIFIC COAST AND

OREGON.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			_	. 1	-			1		Recor	rd.		
No.	Name of station.	County.	Ls itu		Loi gitu		Eleva- tion.	Len	gth.	From	1	To (inclu- sive)—	Remarks as to observers and miss ing records.
83	Fort Stevens	Clateop	。 46		° 124	, 01		Yrs. 14		Nov., 186	6 5	Feb., 1883	U. S. post hospital. Record much broken. Jan., July, Aug., 1866 Oct. to Dec., 1868, inclusive; Jan to Mar., 1869, inclusive; July 1869, to June, 1871, inclusive
84	Astoria	do	46	10	123	48	52	28	4	Aug., 18	50	Dec., 1887	Sept. 1882. U. S. post hospital. L. Wilson Signal Service. Record much broken. Oct., 1851, to Aug. 1853; Oct., 1876, to Nov., 1883, in clusive.
35 36	Umatilla Pendleton	Columbia.† Umatillado	45 45		119 118	22 50		5 0	8 5	Aug., 187 Feb., 189	77 86	Mar., 1883 Aug., 1886	Signal Service. Rev. O. W. Lucas. June, July 1886.
37	La Grande	Union Morrow.† Gilliam.† Tillamook.†	45	22	118	18		1	6	June, 18	86	Nov., 1887	J. K. Romig.
38	Willamette	Washington.† Multnomah	45	40	122	45	120	0	3	May, 18	61	Jan. , 1864	T. H. Crawford, P. L. Willis. June 1861, to Sept., 1863, inclusive Nov., Dec., 1863.
89		do		:	122			3	7	Mar., 18		Nov., 1887	George Wigg. Mar., 1885; Aug. 1886.
40 41 42	Hood River	do Wasco do	45	32 42 36	122 121 120		45 500 350	16 0 12	228	Nov., 18 Sept., 18 July, 18	72	Dec., 1887 Oct., 1872 Mar. 1866	 U. S. post hospital. Record muc broken. Apr., 1851, to Sept 1852, inclusive; July, 1855; Jan 1856; May to Dec., 1856, inclu- sive; Apr., 1850; June, 1862 Mar., Apr., July, Aug., 1864; Jan
43 44	Mount Hood Oregon City	do Clackamas	45 45	40 22	121 122		40 0 200	0 8	11 0	Oct., 18 Jan., 18		Aug., 1873 Mar., 1859	G. H. Atkinson. Jan., 1852, to Mar
45	Fort Yambill	Yamhill	45	05	123	32	ļ	់ទ	3	Nov., 18	56	Apr., 1866	1857, inclusive. U. S. post hospital. Nov., 1861
46 47	Mount Angel Auburn	Marion Baker	45 44	06 85	122 118	50 06	3, 300	1 0	5 4	June, 18 June, 18		Oct., 1887 Aug., 1865	May, 1863; Apr., 1864. Barnabas Held. Lieutnant Glassford. Record muc broken. Sept. to Dec., 1864, in clusive; Jan. to July, 1865, inclu sive.
48	Camp Logan	do	44	15	118	12	5, 60 0	0	8	Nov., 18	67	Oct., 1868	U. S. post hospital. Dec., 186 Jan., Feb., Mar., 1868.
49		Polk		57		54		17		Jan., 18		Nov., 1887	Thomas Pearce. Record muc broken. July, 1870; Sept., Dec 1873; July, 1874; July, 1874 June, 1878; Feb., 1881; July, 188
50		Grant		37 24	123	18 32				Dec., 18		-	Jan., 1861, inclusive.
51 52	-	do	1	30	119 118		4, 200	11	7 4	June, 18 Jan., 18		Mar. 1869 May, 1880	Jan., Mar., 1868 U. S. post hospital. Nov., 186
53	Albany	Linn	44	35	123	03	600	10	3	Jan., 180	66	Dec., 1887	June, 1870; Jan. to Oct., 1874, in clusive; July, 1876 John Briggs. Record much brok a June, Sept., 1866; June, Ang Oct., Nov., Dec., 1867; Feb., 186 to Mar., 1879, inclusive.
54	Yaquina Light.	Crook.† Benton	45	89	124	02		0	4	Sept., 18	387	Dec., 1887	John G. Jessup.
55 56		do	44 44	82 25	123 123	04 30		0	1 8	Jan., 18 Mar., 18	67 358	Dec., 1859	U. S. post hospital. U. S. post hospital. July, Aug 1859.
561 57 58 59 60 61 62	Gardiner Fort Umpqua Roseburg Empire City Bandon	Lane Douglasdo do Coos Klamath	43 43 43 43 43		123 124 124 123 124 124 124 121	06 05 09 20 10 15 55	8 	10 5 3		D	ec. 356 377 380 384	Sept., 1880 1886 Dec., 1887 June, 1887 Doc., 1887 Nov., 1887	Thomas C. Mackey. U. S. post hospital. Signal Service. Sept., 1884. Lieutenant Glassford. George Bennett. July, 1885.



THE WESTERN STATES AND TERRITORIES.

OREGON-Continued.

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			-				Record.		
No.	Namë of station.	County.	Lat- itude.	Lon- gitude.	Eleva- tion.	Length.	From—	To (inclu- sive)—	Remarks as to observers and miss- ing records.
63	Klamath Agency.	Klamath	o / 42 39	° ' 121 4 0	Feet.	Yrs. M. 0 11	Feb., 1884	Mar., 1885	Will Nickerson. Sept. to Nov., 1884.
64 65	Linkville Camp Warner	. do Lake	42 15 42 28	121 45 119 42		89 53	Feb., 1884 Aug., 1868	Dec., 1887 July, 1874	Signal Service. June, Sept., 1885. U. S. post hospital. Sept., 1868, to May, 1869, inclusive.
66	Lakeview	do 	42 12	120 12	5, 06 0	3 10	Nov., 1883	Nov., 1887	
67 68	Port Orford Fort Lane	Cnrry Jackson	42 44 42 24	124 29 122 30	50 2,000		June, 1852 Jan., 1855		U. S. post hospital.
69	Ashland	do Josephine.†	42 12	122 28	1, 940	3 10	Feb., 1884	Nov., 1887	Signal Service.

† No data.

OREGON-Continued.

				Januar	y.				Februar	ry.		1		March	•	
	Name and number of station.	Aver-	Max	imum.	Min	imum.	Aver age.	Max	imum.	Min	imum.	Aver- age.	Маз	imum.	Mini	mum.
		Ine.	Ins.	Yrs.	Ine.	Yrs.	Ins.	Ins.		Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yr.
	Fort Stevens	10.78		1880	1.39	1868		19.19	1879	4.75	1868		22. 60	1879	2.56	1857
	Astoria	13.94	27.00	1851	3.,8	1868		17.57	1872	3.18	1869		21.32	1859	1.51	188
	Unatilla	1. 40	2.55	1883	0.56	1880	1.14	1.92	1881	0. 54	1880	0.89	1.72	1878	0. 32	1882
	Pendleton			•••••		• • • • • • • • •	0.77		••••		• • • • • • • • •	0.69		• • • • • • • •	' • • • • • • • •	
	La Grande	5.18 8.39		• • • • • • • •		• • • • • • •	0.70	•••••	• • • • • • • • •	· • • • • •	• • • • • • •	2. 25	•••••	• • • • • • • •	•••••	•••••
	Willamette East Poutland		ii. ii	1887	3.16	1885	5.69	9.00	1887	2.00	1886	3. 62	6.34	1887	1.18	188
	Portland		18.71	1883	2.75	1877		13.36	1881	1.96	1886		12.76	1873	0.63	1883
	Hood Rivert	1. 40	10.71	1000	A. 15	7011	0. 50	13. 00	1001	1. 90	1000	1.00	12.70	1019	0.05	1000
41	Fort Dallas.	4.36	7.08	1857	2.68	1861	2. 39	9.41	1858	0.22	1864	2.23	6.07	1859	0.62	186
	Mount Hood	16.21	1.00	1007	2.00	1001	5. 22	0.41	1000	0.22	1003	10.40	0.01	1000	0.02	1004
	Oregon City		13.63	1851	4.05	1858	5. 17	8.28	1859	3.43	1851	7.15	10 72	1859	4.87	1858
45	Fort Yamhill		12. 50	1862	5.00	1865		10. 57	1859	1.72	1864	7.66		1862	3. 79	1863
46	Mount Angel						3.72					10. 30				
47	Auburnt											10100				
	Camp Logant				. .		1									
		1	9,86	1887	2, 53	1875	5 07	13. 24	1872	0.93	1875	E 07	10 00	(1877)		1886
	Eola.						0			1	1919	5. 31	10.66	{ 1877 } { 1879 }	0.55	
	Fort Hoskins		10.58	1863	8.67	1862		14.96	1863	2.60	1864		15.50	`1850´	1.89	1858
	Camp Watson				· • • • • • •			1.19	1868		1869	1. 78			 .	
52,	Camp Hamey	1.51	8.15	1873	0.56	1880	1.10	3.11	1878	0.45	1875		3.60	1877	0.30	1873
	Albany		14.45	1867	2. 22	1882	6. 77	13.08	1881	1.36	1883	4.57	11.71	1886	0.81	1880
	Yaquina Light-Houset			• • • • • • • • •		• • • • • • • •			• • • • • • • • •	• • • • •	•••••	· • • • • • •		· • • • • • • •		
	Corvallis		· • • • • • •	• • • • • • • •		• • • • • • • •	1			•••••	• • • • • • •			• • • • • • • • •		.
	Blockhouse			••••••••			12.30					16.06				••••••••
204	, Eugene City	8.74	13.15	1880	6.40	1879	5.61	6.32	1878	4.77	1880	6.11	8, 39	1879	3, 52	1880
	Gardinert		13.53		7.65	1865	0.01	15.85	1859	5.77	1860	9.73	10.00			
	Fort Umpqua		13.53	1857 1881	2.98	1865	9.91 4.72	8.19	1859	5.77	1883	9.73	16.09	1862	4.20	1860 1885
	Empire City		11.00	1001	2.80	1992	7.41	0.18	1001	1.11	1999	3.33	8.60	187 9	0. 28	1993
	Baudon		16.28	1887	4.60	1884	8.24	12.45	1885	5.17	1887	4 .70	7.07	1887	0.63	1885
	Fort Klamath		7.10	1866	1.74	1877	2.75	5.98	1887	0.28	1875	2.79	5.78	1877	0.03	1885
	Klamath Agency			1000	4.14	1 011	2.64	2.83	1885	2.45	1884	0.81	1.48	1884	0.19	1885
	Linkville		5.31	1886	2.18	1887	1.78	2.33	1885	1.21	1886	1.44	3.13	1884	0.49	1887
	Camp Warner		2. 51	1874	0.80	1871	1.97	3.44	1872	1.23	1871	1.21	2.28	1874	0.65	1873
	Lakeview		3.15	1886	2.15	1887	1.99	2.49	1884	1.26	1886	1.58	4.12	1884	0.20	188
	Port Oxford		11. 81	1853	7.62	1856	5.79	6.65	1853	4.67	1856	6.17	9.84	1855	2. 21	1856
	Fort Lane	2.82	4.38	1885	1.26	1856	0,92	1.27	1855	0.58	1856		33.26	1852	0.44	1856
	Ashland	4.02	4.98	1887	2.44	1885	2 46	4.55	1885	0.95	1881	1.39	3,14	1884	0.01	1885

Rain-fall in inches.	showing the greatest.	least, and average values	for each month and for the year.
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	ł		A pril.			1		May.			1		June.		
Name and number of station.	Aver- age.	Maxi	imum.	Min	imum.	Aver- age.	Max	imum.	Mini	mum.	A ver- age.	Max	imum.	Mini	imum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yr
, Fort Stevens		7.22	1876	2.27	1878	, 3. 66	5. 20	1879	0.88	1867	2. 24	6.90	1872	0.29	186
Astoria		9.32	1854	0.20	1857	3.76	6.91	1871	1.22	1864	2.88	6.11	1861	0.06	186
Umatilla	. 0. 82	1. 49	1879	0. 01	1878	0.64	1.96	1879	0.06	1681	0.36	0.96	1881	0.02	187
Pendletou	. 0.63					1.05	. 	. .			ľ				
La Grande	1, 29					0.56					1.71	2.90	1887	0.52	18
Willamette						2.54		• • • • • • • •	"	· · · <i>•</i> •			
East Portland	. 2. 32	3,04	1886	1.08	1885	0.83	1.15	1885	0.09	1884	1.08	3, 11	1885	0.40	18
Portland		7.88	1883	1.12	1885	2.58	6.60	1879	0.92	1872	1.49	2,96	1873	0.08	18
Hood Rivert					. .	li								1	
Fort Dallas		1.46	1861	0.00	1857	0.94	2.61	1862	0.00	1865	0.53	2.08	1861	0.08	18
Mount Hood						1.03					2.73				
Oregon City		3.18	1851	0.79	1857	3. 37	4.58	1851	2.54	1857	1.41	2.04	1858	0.40	18
Fort Yamhilf		6.06	1861	0.10	1857	2.41	3.87	1858	0.80	1864	1.61	5.92	1861	0.09	18
Mount Angel						4.43					3. 32	4.36	1886	2.29	18
Auburn										••••	2.37	1.00	1000	2.20	10
Camp Logan			•••••		••••••	5.50		•••••		•••	6.20		•••••		•••••
Eola		6. 51	1853	1.08	1872	2.00	5.94	1879	0.42	1884	1. 16	2.41	1877	0.05	
Fort Hoskins		7.34	1861	0.09	1857	2.76	6.92	1858	0.83		1.10	5.06	1861		
		1.01	1001	0.08	1011	1.21	0. 92	1000	0.00	1909				0. 11	18
Camp Watson		2.74	1879	0.10	1872		2.01	1868	0. 10	1870	1.95	3.70	1868	0.19	18
Camp Harney	0.91					0.96					0.75	2.20	1868	0.00	18
Albany	3.66	6.58	1883	1.38	1885	2.81	5. 70	1879	0.89	1884	1.28	8. 83	1884	0. 22	18
Yaquina Light-Houset	••••••		••••		••••••		•••••	• • • • • • •		••••	• • • • • •	•••••	••••		· · · · ·
Corvallis t			•••••		•••••	·	••••			•••••••		• • • • • • •	•••••		
Blockhouse	4.82					5.39				•••••••	2.24		•••••		• • • • •
, Engene City	2.27	3.63	1880	1. 12	1878	3. 61	6. 19	1879	1.97	1878	5.44	0. 58	1880	0. 21	18
Gardiner t				· · · · · · · · · · · · · · · · · · ·				••••••••		•••••			•••••		
Fort Umpqua		7.47	1861	0.63	1857	3.09	4.20	1861	1.40	1862	2.18	6. 02	1861	0.20	18
Roseburg		5.14	1882	1.07	1881	1.79	4.63	1879	0.73	1881	0.96	2.92	1881	0. 01	18
Umpire City	. 2.94				•••	1.60				• • • · · · · · ·	1. 28				
Bandon		6.47	1887	0.97	1885	2. 24	5. 11	1887	0.43	1884	1.00	1.78	1885	0.47	18
Fort Klamath		2.77	1880	0,20	1865	1.22	2.25	1879	0.50	1878	0.85	3.14	1884	0.00	18
Klamath Agency	. 1.82	· · · • • • • •				1.56	. .			• • • • • • • • •	2. 28				
Linkville	. 2.10	2.85	1885	1.50	1886	1.35	1.72	1884	0.54	1887	1.46	2.22	1884	0.94	18
Camp Warner	. 1. 21	1. 95	1873	0.73	1861	1.89	3. 23	1872	1.00	1374	0. 63	1.35	1874	0.14	18
Lakeview	. 1.60	2. 35	1884	0.92	1885	1.16	1.47	1885	0.97	1886	2. 98	6. 58	1884	1.02	18
Port Orford		11. 30	1856	5.17	1855	4.56	8.60	1855	1.89	1853	1. 33	1.85	1856	0.33	18
Fort Lane		2, 53	1856	0.98	1855	1.62	1.91	1856	1.33	1855	0.72	1.03	1855	0.41	18
Ashland.		8. 39	1887	1.33	1884	1.71	3.74	1885	0.76	1884	1.02	2.40	1885	0.24	18

† No data.

(²) Generally.



THE WESTERN STATES AND TERRITORIES.

OREGON-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

					July.					August	t.			S	eptemb	er.	
Name and numbe	r of st	ation.	Aver- age.	Maxi	mum.	Mir	aimum.	Aver- age.	Mari	mum.	Mir	1imum.	Aver- age.	Maxi	mum.	Mini	mum.
Fort Stevens			Ins. 2.08	Ins. 4.58	Yrs. 1867	1ns. 0.17	Yrs. 1875	Ins. 1.83	Ins. 6. 25	Yrs. 1872	Ins. 0.00	Yrs. 1568	Ins. 3.04	Ins. 5.35	Yrs. 1872	Ins. 0.31	Yrs 18
Astoria			1.28	3.55	1876	0. 00	1851	1.37	5.87	1869	0.00	1850	3.34	8. 49	1863	0.33	18
Umatilla Pendleton†	• • • • • • •	••••	0.32	0. 53	1881	0.04	1882	0.34	1.14	1880	0. 0 0	1882	0.78	1. 20	1882	0.18	18
La Grande			0.26	0.33	1887	0.18	1886	0.30	0.49	1887	0.10	1886	0.48	0. 55	1874	0.41	18
Willamettet										101.000							•••••
East Portland Portland	•••••		0.54	2.04	1884 1884	0.04			0. 03 2. 11	'84 '87 1881	0.00		2.08 1.79	4.08 4.25	1887 1884	0.04	18 18
Hood River						0.00		1					1.75				
Fort Dallas Mount Hood Oregon City Fort Yamhill			0. 36	1.38	1860	0.00	'58'61		0.75	1858	0. 00	1855	1.46	5.77	1859	0.16	18
Mount Hood	•••••	••••••	0.40	0. 35	1857	0.00	1851	0, 15	1.90	1851	0.44	1858	2.24	4.04	1858	0.72	i
Fort Yamhill	••••••	• • • • • • • • • • • • • • • • • • •	0.36	1.02	1863	0.00			1.08	1859	0.10		2.69	5.75	1859	0.55	i
mount Angel			2.34	4.68	1886	0.00	1887	0.16	0.33	1887	0.00			9. 171	1886	2.85	1
Auburn	•••••	•••••	1.00		•••••	' ····	••••	1.71		•••••	· • • • •	••••••		• • • • • •	••••		• • • • •
Camp Logan Eola			0.54	2.29	1884	0.00	1883		1.79	1879	0.00	(1)	0.30 1.74	6. 59	1884	0. 13	i
Fort Hoskins		• • • • • • • • • • •	0.37	0.85	1862	0. 02	1861	0.36	1.18	1859	0.03		3, 18	7.08	1859	0.55	1
Camp Watson	•••••	•••••	0.11	0.22	1867	0.00			1 00	1070	0.00	·······	0.62	0.94	1867	0.30	1
Camp Harney Albany	•••••		0.29 0.57	0.96	1873 1884	0.00		0.20 0.54	1.00 1.62	1878 1881	0.00		0.23	0.63 5.16	1872 1884	0.00	1
Yaquina Light-He	ouse .	• • • • • • • • • • ·	·										2. 57				
Corvallist		• • • • • • • • • • •			••••	′ · · • • •	•••••		· · · · · · · ·	•••••					1050		••••
Blockhouse Engene City	••••••	••••	0.30	1.00	1878	0.03	1880	0.00	1.04	1879	0. 44		10. 12 1. 89	13. 80 8. 28	1859 1877	6.44 0.85	1
Gardinert							• • • · · · · · •	.		1010		1011			• • • • • • • • •		
Fort Umpqua			0.30	0.80	1860	0.00			1.13	1859	0.00		2.27	6. 30	1859	0.00	1
Roseburg	•••••	•••••	0.56	2. 20	1886	0. 01	'80'83	0. 29 0. 24	1.47	187 9	0.00	1882	0.82 1.24	1. 40	1877	0. 33]
Empire City Bandon	•••••••		1 01	1.84	1860	0.15	1887	0 08	0. 19	1886	0.02	1885	2. 27	5.12	1884	0.49	1
Fort Klamath			0.45	1.24	1881	(T)		0.30	1. 40	1865	0.00		0.56	2. 30	1873	0.00	'78
Klamath Agency		•••••	0.24		1000	(T)	1.005	0.02		1007					1884	0.00	••••
Linkville Camp Warner	• • • • • • • •	••••	0.28	1.51	1886 1873	0.00			0. 42 0. 80	1887 1872	0.00		0.21 0.60	0.58 1.76	1872	0.00	1
Lakeview Port Orford			0.32	0, 60	1884	0.11		0. 54	1.19	1884	0.00		0.51	1. 92	1884	0.00	ī
Port Orford	•••••	•••••	0.56	1.38	1856	0.00	1854	1.22	2. 56	1854	0. 10	1855	2.34	4. 49	1855	0. 19	1
Fort Lane Ashland			0.00	1. 69	1886	0. 02	1885	0.01	0.04	1887	0.00	(1)	1.03	2.28	1884	0.00	····i
								1			1	!!					_
		Octob	per.	*	1	No	vember.			Dec	cembe	e r .			Yesr	·	
ame and number of station.	A ver- age.			aimum.	معe.			linimum	Avei age.	Marin		er. Minimun	n. Mea	n. M			nimu
	age.	Maximur	n. Mir			Maxi	mum. M		age.	f. Maxin	num.	Minimun			aximun	. Mir	
of station.	age.	Maximur Ins. Yrs	n. Mir . In	s. Yrs.	Ins.	Maxi Ins.	mum. M	ns. Yrs.	Ins.	Maxin	mum. <i>Yrs</i> .	Minimun Ins. Yrs.	Ins		aximum	. Mir	. F
of station. Fort Stevens	Ins. 7. 22 4. 89	Maximut Ins. Yrs 14. 30 187 13. 38 187	n. Min . In. 5 1.7 5 1.3	s. Yrs. 6 1871 2 1869	Ins. 11.79 9.80	Maxi Ins. 22, 21 19, 12	mum. M Yrs. 1 1877 4 1869 2	ns. Yrs. . 54 1880 . 44 1862	age. Ins. 11.80 12.87	^f Maxin Ins. 21. 69 24. 73	mum. Yrs. 1867 1867	Minimun Ins. Yrs. 2. 83 1879 6. 16 1859	Ins 3 82. 6 9 77. 1	. In 15 102 2 112	aximum .41 75-7 .49 75-7	. Mir 6* 68. 4 6* 59. 8	8 74- 5 68-
of station. Fort Stevens Astoria Umatilla	Ins. 7. 22 4. 89	Maximur Ins. Yrs 14. 30 187	n. Min . In. 5 1.7 5 1.3	s. Yrs. 6 1871	Ins.	Maxi Ins. 22, 21	mum. M Yrs. 1 1877 4 1869 2	ns. Yrs.	age. Ins. 11.80	Ins. 21. 69 24. 73	mum. Yrs. 1867 1867	Minimun Ins. Yrs. 2. 83 1876	Ins 3 82. 6 9 77. 1	. In 15 102 2 112	aximum 18. Yra 141 75-7	. Mir 6* 68. 4 6* 59. 8	8 74- 5 68-
of station. Fort Stevens Astoria Umatilla	age. Ins. 7. 22 4. 89 0. 88	Maximut Ins. Yre 14. 30 187 13. 38 187 1. 79 188	n. Min 5 1.7 5 1.3 2 0.3	s. Yrs. 6 1871 2 1869 3 1879	Ins. 11.79 9.80 0.93	Maxi Ins. 22. 21 19. 12 1. 9 2	mum. M Yrs. 1 1877 4 1869 2 1877 0	ns. Yrs. 54 1880 44 1862 54 1880	Age. Ins. 11.80 12.87 1.31	Maxin Ins. 21. 69 24. 73 3. 65	mum. Yrs. 1867 1867	Minimun Ins. Yrs. 2. 83 1879 6. 16 1859	In4 82.6 77.1 9.6	. In 15 102 2 112 13 12	aximum e. Yra .41 75-7 .49 75-7 .70 80-8	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7	8 74- 5 68-
of station. Fort Stevens Astoria Pendletont La Grande	<i>Ins.</i> 7. 22 4. 89 0. 88 1. 00 1. 76	Maximut Ins. Yrs 14. 30 187 13. 38 187	n. Min 5 1.7 5 1.3 2 0.3 6 0.5	s. Yrs. 6 1871 12 1869 13 1879 51 1887	<i>Ins.</i> 11.79 9.80 0.93 1.24	Maxi 22, 21 19, 12 1, 92 1, 32	mum. M Frs. 1 1877 4 1869 2 1877 0 1887 1	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886	age. Ins. 11.80 12.87	Maxin Ins. 21. 69 24. 73 3. 65	mum. Yrs. 1867 1867	Minimun Ins. Yrs. 2. 83 1876 6. 16 1856 0. 36 1878	In4 82.6 77.1 9.6	. In 15 102 2 112 3 12 3 12	aximum .41 75-7 .49 75-7	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7	8 74- 5 68-
of station. Fort Stevens Astoria Umatilla Pendletont La Grande Willamette East Portland	<i>Ins.</i> 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87	Maximur Ins. Yre 14. 30 187 13. 38 187 1. 79 188 1. 50 189 3. 14 188	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0	s. Yrs. 6 1871 2 1869 3 1879 51 1887	<i>Ins.</i> 11. 79 9. 80 0. 93 1. 24 3. 36	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34	mum. M Yrs. 1 1877 4 1869 2 1877 0 1887 1 1884 1	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886	Ins. 11.80 12.87 1.31 4.64	Maxin Ins. 21. 69 24. 73 3. 65 11. 34	mum. 1867 1867 1880	Minimun Ins. Yrs. 2.83 1876 6. 16 1856 0. 36 1878	In4 82.6 77.1 9.6 	. In 15 102 2 112 3 12 11 11 10 	aximum 4. 175–7 49 75–7 70 80–8	1. Mir 6* 68, 41 6* 59, 8 1* 6, 70	74- 5 68- 0 81-
of station. Fort Stevens Astoria Umatilla Pendletont La Grande Willamette East Portland Portland	<i>Ins.</i> 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94	Maximur Ins. Yrs 14. 30 187 13. 38 187 1. 79 188 1. 50 188	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0	s. Yrs. 6 1871 12 1869 13 1879 51 1887	<i>Ins.</i> 11. 79 9. 80 0. 93 1. 24 3. 36	Maxi 22, 21 19, 12 1, 92 1, 32	mum. M Yrs. 1 1877 4 1869 2 1877 0 1887 1 1884 1	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886	Ins. 11.80 12.87 1.31 4.64	Maxin Ins. 21. 69 24. 73 3. 65 11. 34	mum. 1867 1867 1880	Minimun Ins. Yrs. 2. 83 1876 6. 16 1856 0. 36 1878	In4 82.6 77.1 9.6 	. In 15 102 2 112 3 12 11 11 10 	aximum e. Yra .41 75-7 .49 75-7 .70 80-8	1. Mir 6* 68, 41 6* 59, 8 1* 6, 70	74- 5 68- 0 81-
of station. Astoria Umatilla Pendletont La Grande Willamette East Portland Portland Hood River Fort Dallas	age. Ins. 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94 1. 00 0. 97	Maximur Ins. Yre 14. 30 187 13. 38 187 1. 79 188 1. 50 189 3. 14 188	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3	s. Yrs. 6 1871 2 1869 3 1879 51 1887	<i>Ins.</i> <i>Ins.</i> 11. 79 9. 80 0. 93 1. 24 3. 36 6. 25 3. 35	Maxi Ins. 22, 21 19, 12 1, 92 1, 32 4, 34 15, 77	mum. M Yrs. 1 1877 4 1869 2 1877 0 1887 1 1884 1 1875 1	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886	age. Ins. 11.80 12.87 1.31 4.64 6.14 8.81	Maxin Ins. 21. 69 24. 73 3. 65 11. 34 20. 14 10. 79	mum. 1867 1867 1880 1886 1888	Minimun Ins. Yrs. 2.83 1876 6. 16 1856 0. 36 1878	In4 82.6 77.1 9.6 19.6 19.6 19.6 19.7	. In 5 102 2 112 3 12 3 12 6 69	aximum 4. 175–7 49 75–7 70 80–8	 Mir Ins 6* 68.4 6* 59.8 1* 6.7 6* 40.9 	8 74- 5 68- 0 81- 8 74-
of station. Fort Stevens Astoria Pendletont La Grande Willamette Bast Portland Hood River Fort Dallas Mount Hood	ago. <i>Ins.</i> 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94 1. 00 0. 97 2. 65	Maximut Ins. Yrs 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1	s. Yrs. 6 1871 12 1869 13 1879 11 1887 16 1887 16 1887 16 1874 15 1855	Ins. 11. 79 9. 80 0. 93 1. 24 3. 36 6. 25 3. 35 4. 74	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 97	mum. M Frs. 1 1877 4 1869 2 1887 1 1887 1 1884 1 1884 1 1884 1 1884 0	ns. Yrs. 54 1880 44 1862 54 1880 .17 1886 .00 1886 .00 1886 .20 1862	age. <i>Ins.</i> 11.80 12.87 1.31 4.64 6.14 8.31 4.30 6.85	Maxin Ins. 21. 69 24. 73 3. 65 11. 24 20. 14 10. 79	mum. 1867 1867 1880 1886 1886 1882 1856	Minimun Ins. Yrs. 2. 83 1876 6. 16 1859 0. 36 1875 2. 97 1884 0. 68 1876 0. 63 1862	Ins 82. 6 77. 1 9. 6 19. 6 33. 9 49. 7 2 21. 9	. In 5 102 2 112 3 12 3 12 1 6 69 6 88	aximum 41 75-7 49 75-7 70 80-8	 Mir Ins 6* 68.4 6* 59.8 1* 6.7 6* 40.9 	8 74- 5 68- 0 81- 8 74-
of station. Fort Stevens Astoria Umatilla Pendletont La Grande Willamette East Portland Fort Jallas Mount Hood Dregon City	ago. <i>Ins.</i> 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94 1. 00 0. 97 2. 65 3. 46	Maximut Ins. Yrs 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185 4. 58 185	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2	s. Yrs. 6 1871 12 1869 13 1879 1 1887 6 1887 6 1874 5 1855 1855	<i>Ins.</i> <i>Ins.</i> 11. 79 9. 80 0. 93 1. 24 3. 36 6. 25 3. 35 4. 74 5. 12	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 97 6. 83	mum. M Frs. 1 1877 4 1889 2 1877 0 1889 1 1887 1 1887 1 1887 1 1887 1 1861 0 1857 4	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886 . 00 1886 . 00 1886 . 20 1862 . 09 1851	age. Ins. 11. 80 12. 87 1. 31 6. 14 8. 81	Maxin Ins. 21. 69 24. 73 3. 65 11. 34 20. 14 10. 79 9. 93	mum. 1867 1867 1880 1886 1882 1856 1858	Minimun Ins. Yrs. 2.83 1876 6.16 1866 0.36 1875 2.97 1884 0.88 1876 0.63 1862 7.70 1881	<i>Ina</i> 82.6 77.1 9.6 19.6 19.6 19.6 23.5 49.7 221.5	. In 5 102 2 112 3 12 3 12 1 6 69 6 88 31	aximum 41 75-7 49 75-7 70 80-8 . 13 75-7 . 51 57-5	 Min Inse 6* 68. 4 6* 59. 8 1* 6. 70 6* 4C. 90 8* 10. 2 	8 74- 5 68- 0 81- 8 74- 7 62-
of station. Astoria Umatilla Pendletont La Grande Willamette East Portland Hood River Fort Dallas Mount Hood Oregon City	Ins. 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94 1. 00 0. 97 2. 65 3. 46 2. 96	Maximut Ins. Yrs 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3	e. Yre. 66 1871 12 1869 13 1879 14 1887 16 1887 16 1887 16 1874 15 1855 16 1855 10 1864	Ins. 11. 79 9. 80 0. 93 1. 24 3. 36 6. 25 3. 35 4. 74	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 97	mum. M Frs. 1 1877 4 1889 2 1877 0 1889 1 1887 1 1887 1 1887 1 1887 1 1861 0 1857 4	ns. Yrs. 54 1880 44 1862 54 1880 .17 1886 .00 1886 .00 1886 .20 1862	age. Ins. 11. 80 12. 87 1. 31 6. 14 8. 81	Maxin Ins. 21.69 24.73 3.65 11.34 20.14 10.79 9.93 14.80	mum. 1867 1867 1868 1886 1886 1886 1856 1858	Minimun Ins. Yrs. 2. 83 1876 6. 16 1859 0. 36 1875 2. 97 1884 0. 68 1876 0. 63 1862	In4 8 82.6 77.1 8 9.6 19.6 19.6 19.6 19.6 19.6 21.9 21.9 147.6 55.5	. In 5 102 2 112 3 12 3 12	aximum 41 75-7 49 75-7 70 80-8	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7 6* 4C. 9 6* 4C. 9 8* 10. 2	74- 568- 081- 874- 874- 762- 762- 164-
of station. Astoria Jumatilla Pendletont La Grande Willamette East Portland Portland Portland Hood River Fort Dallas Mount Hood Dregon City Fort Yamhill Mount Angel Auburnt .	Ins. 7. 22 4. 89 0. 88 1. 00 1. 76 1. 87 3. 94 1. 00 0. 97 2. 65 3. 46 2. 96 3. 20	Maximut Ins. Yra 14. 30 187 13. 38 187 1. 79 188 1. 63 188 3. 32 185 5. 75 186 4. 39 188	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 6 2.0	e. Yre. 66 1871 12 1869 13 1879 14 1887 16 1887 16 1887 16 1874 15 1855 16 1855 10 1864	<i>Ins.</i> <i>Ins.</i> <i>11.79</i> <i>9.80</i> <i>0.93</i> <i>1.24</i> <i>3.36</i> <i>6.25</i> <i></i> <i>3.35</i> <i>4.74</i> <i>5.12</i> <i>7.55</i> <i>2.84</i>	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 97 6. 83	mum. M Frs. 1 1877 4 1889 2 1877 0 1889 1 1887 1 1887 1 1887 1 1887 1 1861 0 1857 4	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886 . 00 1886 . 00 1886 . 20 1862 . 09 1851	age. Ins. 11. 80 12. 87 1. 31 6. 14 8. 31	Maxin Ins. 21.69 24.73 3.65 11.34 20.14 10.79 9.93 14.80	mum. 1867 1867 1868 1886 1886 1886 1856 1858	Minimun Ins. Yrs. 2.83 1876 6.16 1866 0.36 1875 2.97 1884 0.88 1876 0.63 1862 7.70 1881	In4 8 82.6 77.1 8 9.6 19.6 19.6 19.6 19.6 19.6 21.9 21.9 147.6 55.5	. In 5 102 2 112 3 12 3 12	aximum 41 75-7 49 75-7 70 80-8 . 13 75-7 . 51 57-5 . 88 60-6	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7 6* 4C. 9 6* 4C. 9 8* 10. 2	74- 568- 081- 874- 874- 762- 762- 164-
of station. Astoria Umatilla Pendletont La Grande Willamette East Portland Hood River Hood River Mount Hood Oregon City. Fort Vallas Mount Angel Mount Angel Auburat Camp Logan	age. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 0.97 2.65 3.46 2.96 3.20 0.70	Maximut Ins. Yrs 14. 30 187 13. 38 187 1. 79 188 1. 50 188 3. 14 188 11. 63 188 3. 32 185 5. 75 186 4. 39 188	n. Min 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 6 2.0	s. Yrs. 6 1871 12 1869 3 1879 6 1887 6 1887 6 1874 5 1855 6 1857 10 1864 10 1887	Ins. 11. 79 9. 80 0. 93 1. 24 3. 36 6. 25 3. 35 4. 74 5. 12 7. 55 2. 84 6. 70	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 97 6. 83 16. 27	mum. M Frs. 1 1877 4 1869 2 1877 0 1887 1 1884 1 1884 1 1887 1 1884 0 1887 4 1865 0	ns. Yrs. 64 1880 44 1862 54 1880 17 1886 00 1886 00 1886 20 1862 09 1851 90 1862	age. <i>Ins.</i> 11. 80 12. 87 4. 64 6. 14 8. 31 4. 64 6. 14 8. 31 6. 14 8. 31 1. 30 1. 31 1. 31 	Maxin Ins. 21. 69 24. 73 3. 65 11. 24 20. 14 10. 79 9. 93 14. 80	Yrs. 1867 1867 1886 1882 1856 1858	Minimun Ins. Yrs. 2.33 1876 6.16 1860 0.36 1877 0.36 1877 0.68 1876 0.68 1876 7.70 1881 1.86 1856	Ins 82.6 77.1 9.6 19.6 33.9 2 2 4.33.9 3.4.7 2.1.9 4.7.6 5.5.8 75.8	In 15 102 10 112 11 12 11 11 16 69 11 16 88 11 16 13 17 18 19 61 10	aximum 4. 175-7 49 75-7 70 80-8 . 13 75-7 . 51 57-5 . 88 60-6	1. Mir 6* 68.4 6* 59.8 1* 6.7 6* 40.9 6* 40.9 8* 10.2	7. F 8 74- 5 68- 0 81- 8 74- 7 62- 1 64-
of station. Fort Stevens	age. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 0.97 2.65 3.46 2.96 3.20 0.70	Maximut Ins. Yra 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185 5. 75 186 4. 39 188 8. 01 187	n. Min 5 1.7 5 1.3 2 0.3 6 0.6 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 6 2.0 8 0.1	s. Yrs. 6 1871 12 1869 13 1879 14 1887 16 1887 16 1887 16 1887 16 1855 16 1855 16 1857 10 1864 10 1864 10 1874	<i>Ins.</i> <i>Ins.</i> <i>11.</i> 79 9.80 0.93 <i>1.</i> 24 3.36 6.25 3. 35 4.74 5.12 7.55 2.84 6.70 5.08 8.34	Maxi Ins. 22. 21 19. 12 1. 92 1. 32 4. 34 15. 77 6. 83 16. 27 13. 01 13. 01 18. 10	Trs. 1 1877 4 1869 2 1887 1 1884 1 1884 1 1885 1 1885 4 1875 4 1885 4 1885 0 1887 0 1887 1 1885 0	ns. Yrs. 54 1880 44 1862 54 1880 . 17 1886 . 00 1886 . 00 1886 . 20 1862 . 09 1851	age. <i>Ins.</i> 11.30 12.87 1.31 4.64 6.14 8.31 4.36 6.85 8.75 10.08 12.45 6.19	Ins. 21. 69 24. 73 3. 65 11. 24 20. 14 10. 79 9. 93 14. 80 11. 50	Yrs. 1867 1867 1880 1882 1882 1885 1856 1858 1858	Minimun Ins. Yrs. 2. 33 1876 6. 18 1856 0. 36 1876 0. 36 1876 0. 38 1876 0. 38 1876 7. 70 1851 1. 86 1855 0. 84 1876	Ins R2.6 87.13 9.6 19.6 19.6 33.9 349.7 21.9 21.9 47.6 55.2 75.8 75.8	In 5 102 2 112 3 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12 6 69 31 30 61 31 32 61 31 34 51	aximum 41 75-7 49 75-7 70 80-8 . 13 75-7 . 51 57-5 . 88 60-6	n. Mir . Ins 6* 68.4 6* 59.8 1* 6.7	7. F 8 74- 5 68- 0 81- 8 74- 7 62- 1 64- 1 64-
of station. Fort Stevens Astoria Umatilla Pendletont La Grande Willamette East Portland Hood River Fort Dallas Mount Hood Oregon City Fort Yamhill Mount Angel Auburnt Camp Logan Eola Fort Hoskins Camp Vatson	age. Ins. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 0.97 2.65 3.46 2.96 3.20 0.70 3.01 3.36 0.28	Maximur Ins. Yra 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185 5. 75 186 4. 39 188 	n. Min 5 1.7 5 1.3 2 0.3 6 0.6 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 6 2.0 6 0.3 8 1.2	e. Yrs. 6 1871 12 1869 13 1879 1 1887 6 1887 6 1887 16 1874 15 1855 16 1857 10 1864 10 1874 10 1874 10 1874 10 1857	<i>Ins.</i> <i>Ins.</i> <i>I.</i> 79 9,80 0,93 <i>I.</i> 24 3,36 6,25 <i></i> 3,35 4,74 5,12 7,55 2,84 6,70 5,08 8,34 0,78	Maxi Ins. 22, 21 1, 92 1, 92 1, 32 4, 34 15, 77 6, 97 6, 83 16, 27 13, 01 18, 10	Trs. I 1877 1 1869 2 1887 1 1887 1 1887 1 1887 1 1884 1 1887 1 1884 1 1887 1 1887 1 1887 1 1887 1 1881 0 1887 1 1887 1 1885 0 1887 1 1885 0 1887 1 1885 0 1887 1 1887 1 1887 1 1887 0	ns. Yrs. 54 1880 17 1886 17 1886 17 1886 17 1886 18 1886 20 1886 20 1862 18 1862 18 1886 45 1886 9 4 1862	age. <i>Ine.</i> 11.80 12.87 1.31 4.36 4.36 4.36 4.36 4.36 4.36 1.1.87 4.36 4.36 1.2.87 4.36 4.36 4.36 4.36 1.2.87 4.36 4.37 4.36 4.36 4.36 4.36 4.36 4.37 4.37 4.37 4.36 4.36 4.36 4.36 4.36 4.36 4.36 4.36 4.36 4.36 4.36 4.37	Maxin Ins. 21.09 24.73 3.65	mum. Yre. 1867 1867 1880 1886 1856 1858 1856 1858 1856	Minimun Ins. Yrs. 2.33 1876 6.16 1866 0.36 1875 0.88 1876 0.63 1862 7.70 1851 1.86 1855 0.84 1876 4.11 1856	Ins 82.6 77.1 9.6 77.1 9.6 19.6 33.9 349.7 221.9 47.6 55.2 75.8 40.2 66.7 18.8	In 5 102 15 102 2 112 3 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12 4 51 59 61 31	aximum 41 75-7 49 75-7 70 80-8 .13 75-7 .51 57-5 .88 60-6 .01 78-7 .20 58-5	1. Mir 6* 68. 44. 6* 59. 8. 1* 6. 70 6* 40. 9 6* 10. 2 1* 43. 9 9* 33. 9 9* 59. 9	7 9 62- 7 62- 7 62- 7 62- 1 64- 8 74- 7 62- 9 62-
of station. Astoria Umatilla Pendletont La Grande Willamette East Portland Hood River Hood River Fort Dallas Mount Hood Oregon City. Fort Yamhill Mount Angel. Auburat Auburat Camp Logan Fort Hoskins Camp Watson Camp Harney.	age. Ins. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 0.97 2.65 3.46 3.20 0.70 3.01 3.36 0.48 0.48	Maximut Ins. Yra 14. 30 187, 13. 38 187, 1. 79 188 1. 50 188 3. 32 185 5. 75 186 4. 39 188 4. 59 185 5. 75 186 4. 39 188 6. 67 187 1. 26 187	n. Min . In. 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 8 0.1 1 1.2 0 1.3 8 0.3 8 0.1 1 3 8 0.3 8 1.2 5 0.3 8 0.3 8 0.1 1 3 8 0.4 1 3 8 0.4 1 3 8 0.4 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	e. Yre. (6 1871 12 1869 13 1879 14 1887 16 1887 16 1887 16 1887 16 1887 16 1857 16 1857 10 1867 10 1867 10 1867 10 1857 10	<i>Ins.</i> <i>Ins.</i> <i>11.</i> 79 9.80 0.93 <i>1.</i> 24 <i>3.</i> 36 6. 25 <i>3.</i> 35 <i>4.</i> 74 <i>5.</i> 12 <i>7.</i> 55 <i>2.</i> 84 <i>6.</i> 70 <i>6.</i> 08 <i>8.</i> 34 0.78 <i>8.</i> 34 0.78	Maxii Ine. 22, 21 19, 12 1, 92 1, 32 4, 34 15, 77 6, 97 6, 83 16, 27 13, 01 18, 10 3, 34	Trs. 1 1877 4 1869 2 1887 1 1887 1 1884 1 1887 1 1884 1 1887 1 1887 1 1887 1 1887 1 1887 1 1881 0 1887 1 1861 0 1887 1 1861 0 1877 1 1861 0 1877 1 1861 0 1879 0	ns. Yrs. 54 1880 44 1862 54 1880 17 1886 00 1886 00 1886 20 1862 09 1851 90 1862 45 1886 94 1862 09 1870	age. <i>Ins.</i> 11.80 12.87 1.31 4.64 6.14 8.31 4.64 8.31 4.64 8.35 10.08 12.45 1.36 6.19 11.73 3.11 1.73	Maxir Ins. 21. 09 24. 73 3. 65 11. 34 20. 14 10. 79 9. 93 14. 80 11. 50 18. 97 4. 42	mum. 1967 1867 1880 1886 1882 1856 1856 1856 1856 1856 1856	Minimun Ins. Yrs. 2. 33 1876 6. 16 1856 0. 36 1875 0. 36 1875 0. 38 1876 0. 38 1876 0. 38 1876 0. 38 1876 0. 38 1876 1. 36 1855 0. 34 1876 4. 11 1855 0. 22 1877	Int 82.6 9 77.1 8 9.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 10.6 10.6	Im 15 102 2 112 3 12 13 12 14 16 16 69 16 88 11 12 13 14 15 16 88 11 12 13 14 51 16 17 18 11 13 13 13 13 16 17 18 19 10 10	aximum 41 75-7 49 75-7 49 75-7 51 57-5 51 57-5 .88 60-6 .01 78-7 .20 58-5 .04 77-7	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7 6* 4C. 9 6* 4C. 9 8* 10. 2 1* 43. 9 9* 33. 9 9* 33. 9 9* 59. 9 8* 7. 2	7 9 74- 8 74- 5 69- 0 81- 8 74- 7 62- 1 64- 1 64- 4 83- 9 62- 2 70-
of station. Fort Stevens Astoria Umatilla Pendletont La Grande Willamette East Portland Portland Portland Fort Dallas Mount Hood Oregon City Fort Yamhill Mount Angel Auburnt Camp Logan Eola Eort Hoskins Camp Watson Camp Harney Albany Yaquina Light	age. Ins. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 0.97 2.65 3.46 3.20 0.70 3.01 3.28 0.49 3.29	Maximut Ins. Yra 14. 30 187 13. 38 187 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185 5. 75 186 4. 39 188 8. 01 187 6. 67 185 1. 26 187	n. Min . In. 5 1.7 5 1.3 2 0.3 6 0.5 4 0.0 2 0.3 8 0.1 1 1.2 0 1.3 8 0.1 1 1.2 0 1.3 8 0.3 8 0.1 1 3 8 0.3 8 1.2 5 0.3 8 0.3 8 0.1 1 3 8 0.4 1 3 8 0.4 1 3 8 0.4 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	e. Yrs. 6 1871 12 1869 13 1879 1 1887 6 1887 6 1887 16 1874 15 1855 16 1857 10 1864 10 1874 10 1874 10 1874 10 1857	<i>Ins.</i> <i>Ins.</i> <i>I.</i> 79 9,80 0,93 <i>I.</i> 24 3,36 6,25 <i></i> 3,35 4,74 5,12 7,55 2,84 6,70 5,08 8,34 0,78	Maxii Ine. 22, 21 19, 12 1, 92 1, 92 1, 32 4, 34 15, 77 6, 97 6, 83 16, 27 13, 01 18, 10 3, 34	Trs. 1 1877 4 1869 2 1887 1 1887 1 1884 1 1887 1 1884 1 1887 1 1887 1 1887 1 1887 1 1887 1 1881 0 1887 1 1861 0 1887 1 1861 0 1877 1 1861 0 1877 1 1861 0 1879 0	ns. Yrs. 54 1880 17 1886 17 1886 17 1886 17 1886 18 1886 20 1886 20 1862 18 1862 18 1886 45 1886 9 4 1862	age. <i>Ins.</i> 11.80 12.87 1.31 4.64 6.14 8.31 4.64 8.31 4.64 8.35 10.08 12.45 1.36 6.19 11.73 3.11 1.73	Maxin Ins. 21.09 24.73 3.65	mum. 1967 1867 1880 1886 1882 1856 1856 1856 1856 1856 1856	Minimun Ins. Yrs. 2.33 1876 6.16 1866 0.36 1875 0.88 1876 0.63 1862 7.70 1851 1.86 1855 0.84 1876 4.11 1856	Int 82.6 9 77.1 8 9.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 10.6 10.6	Im 15 102 2 112 3 12 13 12 14 16 16 69 16 88 11 12 13 14 15 16 88 11 12 13 14 51 16 17 18 11 13 13 13 13 16 17 18 19 10 10	aximum 41 75-7 49 75-7 70 80-8 .13 75-7 .51 57-5 .88 60-6 .01 78-7 .20 58-5	1. Mir 6* 68. 4 6* 59. 8 1* 6. 7 6* 4C. 9 6* 4C. 9 8* 10. 2 1* 43. 9 9* 33. 9 9* 33. 9 9* 59. 9 8* 7. 2	7 9 74- 8 74- 5 69- 0 81- 8 74- 7 62- 1 64- 1 64- 4 83- 9 62- 2 70-
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of station. Astoria Umatilia Pendletont La Grande East Portland Portland Hood River Fort Dallas Mount Hood Oregon City. Fort Yamhill. Mount Angel. Auburnt . Camp Logan Eola Camp Matson Camp Matson Corvallist Blockhonse Eugene City Gardiner Fort Jungqua Roseburg Empire City Bandon Fort Lamth Klamath Agency Linkville Camp Warner	age. Ins. 7.22 4.89 0.88 1.00 1.76 1.87 3.94 1.00 2.65 3.94 1.00 97 2.65 3.94 3.94 3.94 3.94 3.94 3.94 3.94 3.94 3.95 3.66 2.97 3.66 2.68 3.00 3.29 2.26 2.97 3.66 2.98 3.06 3.00 3.29 2.57 3.66 2.97 3.66 2.97 3.06 2.92 577 1.02 2.23	Maximut Ins. Yra 14. 30 187, 13. 38 187, 1. 79 188 1. 50 189 8. 14 188 11. 63 188 3. 32 185 5. 75 186 4. 39 188 4. 39 188 6. 67 185 1. 26 187, 7. 71 185 4. 30 187 7. 05 185 5. 96 188 5. 87 188 4. 51 187 7. 77 188 0. 77 187	n. Mir 5. In. 5. In. 5. I. 5. I. 7. J. 7. J.	e. Yre. 6 1871 1 1887 1 1887 6 1874 1 1887 6 1874 1 1887 1 188	<i>Ine.</i> <i>Ine.</i> <i>I.</i> 29 9. 80 0. 93 <i>I.</i> 24 <i>I.</i> 24 <i>S.</i> 36 6. 25 <i>J.</i> 335 4. 74 5. 12 <i>7.</i> 55 <i>2.</i> 84 <i>0.</i> 78 <i>I.</i> 24 6. 70 5. 08 <i>8.</i> 34 <i>0.</i> 78 <i>I.</i> 24 <i>I.</i> 44 6. 06 <i>I.</i> 4. 08 <i>5.</i> 91 <i>J.</i> 7. 55 <i>I.</i> 24 <i>I.</i> 25 <i>I.</i> 24 <i>I.</i> 27 <i>J.</i> 25 <i>I.</i> 24 <i>I.</i> 27 <i>J.</i> 25 <i>I.</i> 28 <i>I.</i> 27 <i>J.</i>	Maxi Ins. 22.21 19.12 1.92 4.34 15.77 6.97 6.83 16.27 13.01 18.10 3.34 8.40 18.20 8.89 18.05 18.57 3.76	mum. M Frs. 1 1877 4 1869 2 1887 1 1884 1 1887 1 1884 1 1887 1 1887 1 1887 1 1887 1 1887 1 1887 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 0 1885 0 1885 0 1885 0 1885 0 1885 0 1885 0 1885 0	Image: Name Name 64 1880 44 1882 54 1880 17 1886 00 1886 20 1862 20 1862 09 1851 90 1862 09 1870 75 1886 95 1856 97 1886 27 1886 15 1884 83 15	age. Ins.	Maxir Ins. 21. 09 24. 73 3. 65 11. 34 20. 14 10. 79 9. 93 14. 80 11. 50 18. 97 4. 42 11. 64 22. 59 6. 42 18. 95 9. 20 14. 54 8. 68 2. 97 5. 63	mum. Yrs. 1867 1867 1880 1886 1886 1886 1856 1856 1856 1856 1879 1882 1858 1879 1884 1885	Minimun Ins. Yrs. 2. 83 1876 6. 16 1856 0. 36 1875 0. 36 1875 0. 36 1875 0. 38 1876 0. 12 1876 0. 12 1876 0. 12 1876 0. 12 1876 0. 12 1876	Ins 8 82.6 87.1 9.6 19.6 9.6 19.7 9.6 33.9 49.7 2 21.9 49.7 6 5 49.7 6 55.2 7 10.6 7 10.6 9 67.4 9 67.4 9 67.4 9 67.4 9 88.8 5 55.7 6 35.0 38.2 2.4 9 67.4 9 10.4 9 10.4 9 10.4 9 14.4	In 15 102 12 212 13 12 14 15 102 11 11 12 11 11 12 13 14 51 15 16 61 17 74 18 44 51 17 748 18 19 11 12 13 14 15 18 19 11 17	aximum 41 75-7 49 75-7 49 75-7 50 80-8 51 57-5 51 57-5 51 57-5 51 57-5 51 57-5 68 60-6 60 60 4 77-7 24 80-8 62 58-5 68 77-7 10 75-7	1. Min 6. (3, 4) 6. (5, 4) 1* (6, 7) 8* (10, 2) 8* (10, 2) 8* (10, 2) 9* (33, 9) 9* (33, 9) 9	, Y ₁ 5 69 0 81- 5 69 0 81- 7 62 - 7 62 - 7 62 - 7 62 - 8 74 - 9 62 - 8 79 - 1 1 2 59 - 6 82 - 1 1 2 59 - 6 82 - 1 1 2 59 - 6 82 - 1 1 2 59 - 6 1 2 59 - 1 1 1 1 1 1 1 1 1 1 1
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M Frs. 1 1877 4 1869 2 1887 1 1884 1 1887 1 1887 1 1887 1 1887 1 1887 1 1887 1 1887 1 1887 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1 1885 1	 <i>ins. Yrs.</i> .64 1880 .44 1882 .54 1880 .00 1886 	Image. Image. Ins. 11.80 12.87 1.31 1.80 1.42 1.1.80 1.42 4.44 8.13 4.64 8.13 5.10.90 12.45 1.1.33 11 1.2.45 1.13 7.05 7.02 1.1.80 6.65 1.1.80 6.65 1.1.80 6.10 1.1.82 1.11 1.1.92 1.06 2.83 2.33 2.32 2.33	Maxir Ins. 21. 69 24. 73 3. 65 11. 34 20. 14 10. 79 9. 93 14. 80 11. 50 18. 97 4. 42 11. 64 22. 59 6. 42 18. 95 9. 20 14. 54 8. 68 2. 97 5. 63 3. 13	mum. Yrs. 1867 1880 1886 1886 1856 1856 1856 1856 1858 1858 1858 1859 1884 1884 1884 1884 1884	Minimun Ins. Yrs. 2.83 1876 6.16 1866 0.36 1875 2.97 1884 0.88 1876 0.63 1865 7.70 1855 1.86 1855 0.94 1876 4.11 1855 0.92 1877 0.21 1887 1.73 1856 2.73 1875 1.77 1886 0.12 1876 0.12 1876 1.57 1866 1.57 1866 1.	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* Seasonal rain-fall September to August, inclusive. (1) Frequently.

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(*) Generally. (T) Trace of rain-fall.

CALIFORNIA.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

								Record.		
No.	Name of station.	County.	Lat- itude.	Lon- gitude.	Eleva- tion.	Leng	th.	From—	To (inclu- sive)—	Remarks as to observers and miss- ing records.
70	Camp Lincoln	Del Norte	o / 41 08	o / 124 12	Feet.	Yrs 2	М. 8	Sept., 1866	May, 1869	William H. Hall, State engineer.
71 72	Crescent City Fort Ter Waw	do	41 45 41 30	$\begin{array}{rrrr} 124 & 12 \\ 124 & 10 \end{array}$	50		3 3	Apr., 1881 Apr., 1859	June, 1886 Oct., 1861	Oct., 1867. Lieut. W. A. Glassford. William H. Hall. June to Sept., 1861.
73 74	Yreka Scott Valley	Siakiyoudo	41 45 41 45	122 32 123 02	2, 635 2, 570		8 4	Sept., 1871 Aug., 1859	Apr., 1886 Dec., 1886	1861, inclusive. Lieut. W. A. Glassford. Lieut. W. A. Glassford. July (1885
75		do		122 48	2, 570		4	Jan., 1853	Aug., 1858	or 18561). William H. Hall. Aug. and Sept., 1853, Sept., Oct., 1855.
76 77 78	Almaden	do do Modoc		122 15 120 03	4, 680	1	1 1 7	Oct., 1881 Nov., 1886 Sept., 1866	Aug., 1883 Nov., 1887 Nov., 1887	William H. Hall. Central Pacific R. R. Signal Service. William H. Hall. Becord broken. Sept., 1868, to Nov., 1887, inclusive; July, 1868; Mar., Apr., 1869; Oct., 1874; Jan.
79 80		do Humboldt		120 06 123 37	887	1 25	4 0	Nov., 1885 Jan., 1862	Feb., 1887 Nov., 1887	Mar., Apr., 1869; Ort., 1874; Jan., Feb. 1879; June, Aug., 1885. Lieut. W. A. Glassford. William H. Hall. Record broken. Apr., 1865; May to Aug., 1866, in- clusive; Apr. to July, 1867, inclu- sive., July, 1868, Apr. 1978.
81 82 83	Blue Lake Arcata Fort Humboldt	do do do	40 55 40 53 40 46	124 00 123 05 124 09	50	1	3 4 2	June, 1884 June, 1886 Jan., 1854	Ang., 1886 Apr., 1887 Nov., 1866	 sive; July, 1868; Apr., 1876. Lieut. W. A. Glassford. Do. U. S. post hospital. Jan., 1854, to Nov., 1866, inclusive; Feb., 1864; July. Aug., 1864; May to Aug., 1866, inclusive; Jan. to Dec., 1862.
84	Humboldt Light- house.	do	40 37	124 12	50	10	7	July, 1875	June, 1887	inclusive. Lieut. W. A. Glassford. Record broken. Dec., 1876; Nov., 1877; Apr., June, Aug., Oct., 1878; Oct., 1882; to Feb., 1883, inclusive; June, 1883; Jan. to May, inclusive of
85 86 87	Cape Mendocino	do do do	40 24	124 21	637	4	0 4 0	Sept., 1883 Aug., 1882 Nov., 1884	Dec., 1886	1885, 1886, or 1887. Lient. W. A. Glassford. Signal Service. Dec., 1882. Licut. W. A. Glassford. Unable to
88 89	Weaverville Fort Crook	Trinity Shasta	40 45 41 10	123 25 121 30	2, 162 3, 390		7 9	Sept., 1869 Jan., 1885	Mar., 1886 Apr., 1869	find missing months. Lieut. W. A. Glassford, William H. Hall. Record broken. Aug., 1861; Oct., 1863; Jau., 1865; Dec., 1863, to Feb., 1866; inclusive; May to Aug., 1866; inclusive; Dec., 1867,
90	-	do		122 22	1, 138	4 1	11	Sept., 1882	Nov., 1887	to July, 1868, inclusive; Feb., 1869. William H. Hall. Central Pacific R. R. Sept., 1884; Sept., 1885; Oct., 1885, and Aug., 1887.
91 92	Anderson Reed's Camp	do do	41 00 40 34	$\begin{array}{rrrr} 123 & 45 \\ 122 & 18 \end{array}$		01	8	Feb., 1886 Jan., 1880	Dec., 1886 Aug., 1884	Albert Fouch. Lieut.W. A. Glassford. Signal Serv- ice. W. H. Hall.
93	Redding	do	40 32	122 23	551	12	8	Sept., 1874	Nov., 1887	Central Pacific R. R. William H. Hall. Record broken. Dec., 1683; Mar. and Aug., 1884: June, July.
94	Fort Reading	do Lassen.t	40 30	122 05	600	3 1	11	Apr., 1852	Mar., 1856	and Sept., 1885; Feb., 1886, Lieut. W. A. Glassford. May, 1852.
95 04		Tehama	40 12 40 6 0	122 14 122 08	220		3	Sept., 1871		Signal Service, Central Pacific R. R. William H. Hall.
96		do			220	16 1		Sept., 1870		William H. Hall. Central Pacific R. R. Record broken. Sept., 1884; Feb, Aug., Nov., 1886.
97 98	5	do Plum as	39 55 40 07	122 10 120 50	3, 280	8 1		July, 1876 Jan., 1872	Dec., 1886	Lieut. W. A. Glassford. Missing dates not obtainable.
99.	-	do	39 53	120 50	3, 200 4, 000	0 1			Feb., 1873	M. E. Ames. July and Sept., 1872, and Jan., 1873.
				101 00			4	Jan., 1861		 I. L. Kuest, July and Sept., 1674, and Jam., 1873. Lieut. W. A. Glassford. Record broken. Jan., 1861, to Nov., 1867, inclusive; July, Sept., Oct., Dec., 1861; Jan. to Aug., 1862, inclusive; Nov., 1862; Jan., 1863; Mar. to Oct., 1863, inclusive; Sept., 1864; May, July, 1865; July to Sept., 1866, inclusive; June to Aug., 1867, inclusive;
100 101 102		do Mendocino do	89 55 39 42	122 48 123 30	4, 864 1, 800	10	9	Jan., 1877 July, 1864	Aug., 1875	William H. Hall. Lieut. W. A. Glassford, William H. Hall. May to Aug., 1866, inclu- size. Jap. 1987
102 103 104	Mendocino	do	39 40 39 22	123 42 123 45	60	1.		ouiy, 1011	o ande, 1860	Hall, Feb 1875
105 106	Cahto Ukiah	do	89 15 89 14	123 17 128 14		1 9	0 6	Dec., 1869 Jan., 1877	Feb., 1871 June, 1886	Dr. Thornton. July, Aug., Oet., 1870. Lieut. W. A. Glassford.



Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			-		•	_	-			Re	cord.			
No.	Name of station.	County.	La: itud		Lo: gitu		Eleva- tion.	Len	gth.	From	m—	To (in sive		Remarks as to observers and miss- ing records.
107	Point Arenas	Mendocino	-	54	° 123	, 36	Feet.	Y74 11	. <u>М</u> . 4	Sept.,	1875	Mar.,	1887	Lieut. W. A. Glassford. Mar., July,
108	Orland	Colusa	39	45	122	12	254	9	5	July,	1878	Nov.,	1887	Aug., 1885 or 1886. Central Pacific R. R. Lieut. W. A.
109	Willows	do	39	30	122	10	132	9	1	Sept.,	1878	Nov.,	1887	Glassford, W. H. Hall. Central Pacific R. R. Lieut. W. A. Glassford, William H. Hall. June.
110		do		29	122	00	57	13	5	· ·		Mar.,		1885; Feb., 1886. Lieut. W. A. Glassford, William H. Hall. July, 1886.
111 112 113	Colusa	do do do do do	39	25 20 20	122 122 122	30 03 40	45	1 14 1	4 6 11	Jan., Jan., July,	1885 1872 1885	Apr., June, May,	1886 1886 1887	Hall. July, 1886. Lieut. W. A. Glassford. Do. Do.
114				10	122	10	89	11	2	Sept.,	1876	Nov.,	1887	William H. Hall. Central Pacific R. R. June. 1885.
115 116	College City	do	38	55	121	50		28	8 5	July, Jan.,		Feb., May	1886	Lieut. W. A. Glassford. Do.
117 118	Near Paradise City	Buttedo	39	45 44	121 121	35 50	125 196	0	3	Jan.,	186 9	Mar., Nov	1869	J. W. A. Wright.
119		do		- 1	121				4			Aug.,		Central Pacific R. R. William H. Hall. Nov. and Dec., 1886. William H. Hall. Record broken. Oct., Nov., 1871; Nov., Dec., 1878;
120	Oroville	do	39	30	121	35	205	4	9	July,	1880	Mar.,	1887	July, Aug., 1877; June, July, 1878. Lieut. W. A. Glassford. Record broken. Time of missing record uncertain, though probably from
121		do				• • • •		6	0	Sept.,	1873	Aug.,	1879	Jau., 1883, to Dec., 1884, inclusive. William H. Hall.
122	voir. Downieville	Sierra	39	33	120	49	2,200	0	7	Nov.,		Dec.,		Dr. T. R. Kibbe. Jan. to July, 1860,
123	Smartville	Yubs	39	15	1 21	15	800	9	9	Sept.,				inclusive. William H. Hall, Lieut. W. A. Glass
124	Marysville	do		1	121	33	69		11	• •		Oct.,		ford. Jan. to Mar., 1871, inclusive Central Pacific R. R. William H. Hall. Jan., Dec., 1885, inclusive
125 126	NorthBloomfield Bowman's Dam	Nevada	39 39	28 27	120 120	52 34	3, 160 5, 400	16 14	0 8	July, Sept.,	1870 1871	June, June,	1886 1886	Lieut. W. A. Glassford. Lieut. W. A. Glassford. Lieut. W. A. Glassford. July, Aug.,
127	Cnion Ranche	do	39	25	121	30	I	1	0	June,	1859	Sept.,	1860	1884. J. Shaven. Oct., 1859; Jan. to Mar.,
128	Boca	do	39	21	120	02	553	15	11			Nov.,		1860, inclusive. Central Pacific R. R. William H. Hall. Record broken, Sept., 1880, to Aug., 1881, inclusive: Oct., 1885.
129	Truckee	do	39	20	120	04	5, 819	17	1	Sept.,	1870	Nov.,	1887	June, July, Sept., 1887. Central Pacific R. R. William H.
130		do		17	121	00	2, 500	22		Sept.,		June,		Hall. Sept., 1884; Aug., 1885. Lieut. W. A. Glassford.
131 132	Grass Valley	do , Lako	39	15	121 122	02			10 8	Sept. Nov.	1872	June,	1886	Do. Do.
183	Kono Tayee	do		••••			1, 350	12	8	July,	1873	May, June,	1886	Lieut. W. A. Glassford. Apr. to Juue, 1878, inclusive; May, 1885 on 1886.
134 135 136	West Butte Nicolaus Summit	Sutter do Placer	38	18 52 18	121 121 120	31	90 6, 765	6 9 16	8 9 10	Nov., July, Sept.,	1877	June, Mar., Nov.,	1837	Lieut. W. A. Glassford. Do. William H. Hall. Central Pacific B. R. Record broken, June Aug.
137	Emigrant Gap	do	39	17	120	8 8	5, 230	17	3	Sept.,	1 87 0	Nov.,	1887	William H. Hall. Central Pacific
138	Cisco	do	39	17	120	30	5, 939	17	· 1	Sept.,	1870	Nov.,	1887	R. R. Central Pacific R. R. William H.
139	Alta	do	39	12	120	48	3, 612	14	11	Sept.,	1870	Aug.,	1885	Hall. Feb., 1885; Nov., 1886. Central Pacific R. R. William H.
140	Colfax	do	39	08	120	57	2, 421	17	3	Sept.,	1870	Nov.,	1887	Hall. Mar., 1884. Incomplete. Central Pacific R. R. William H.
141		do	89	00	120	50		0	1	Jan.,	1883			Hall. Central Pacific R R.
142	Springs. Auburn.	do	38	54	121	01	1, 563	17	2	Sept.,		Nov.,	1887	Cental Pacific R. R. William H.
143	Rocklin	do	38	45	121	20	249	16	10	Sept.,		Nov.,		Hall. William H. Hall. Central Pacific R. R. Record broken. July, Aug.
144	Dunnigan	Yolo		56	122	00	68	11	3	Sept.,	1876	Nov.,	1887	1881; Sept., Nov., 1884; Nov., 1885.
145 146	Knight's Landing. Woodland	do do	38 38	48 40	121 121		45 61	10 15	3 0	Sept., Sept.,		Nov., Nov.,	1887 1887	Do. Central Pacific R. R. William H. Hall, Lieut, W. A. Glassford
147	Davisville	do		33	121		1	16	3			No v .,		June, Oct., 1884; Nov., 1885. Central Pacific R. R. William H. Hall.
148 149	Georgetown Placerville	El Dorado do	38 38	55 44	120 120		2, 433 2, 109	14 10	0 4	July, Jan.,	1872 1874	June, May,	1886 1886	Lieut. W. A. Glassford. Lieut. W. A. Glassford. Sept., 1877, to Sept., 1879, inclusive.
150	Shingle Springs	do	38	89	120	55	1, 393	19	4	July,	1849	Oct.,	1866	Lieut. W. A. Glassford. Apr., 1868, to Nov., 1885, inclusive; June to

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			_							Rec	ord.			· · · · · · · · ·
₹o.	Name of station.	County.		at- de.	Loi gitu		Eleva- tion.	Len	gth	From	_	To (inc sive)		Remarks as to observers and mis- ing records.
51	Healdsburgh	Sonoma	。 38	, 37	° 122	, 57	Feet.		. <u>М</u> . 7	Sept., 1	.871	Nov., 1	878	William H. Hall. Central Pacific J R. July, 1873, to Feb., 1878, in clusive.
52 53	Sauta Rosa.	do	38 38	26 21	$\frac{122}{122}$	42 30	160	0	6	Nov., 1	873	Apr., 1	874	Prof. W. B. Hardy. Lieut. W. A. Glassford.
54	Templeville	do	38	20	122	28		0	11	Jan., 1	ბი7	Apr., 1 Nov., 1	887	Central Pacific R. R.
55 56	Petaluma	do do Napa	38 38	$\frac{20}{15}$	$\frac{122}{122}$	34 39	500 10	0 16	1 8	Sept., 1 Sept., 1	871	Nov., 1	887	Dr. Thornton. Lieut. W. A. Glassford.
57			38	39	122	35	402	15	3			Nov., 1		Central Pacific R. R. William I Hall.
58		do		18	122	18	95	11	1	Sept., 1		Nov., 1		Central Pacific R. R. William I Hall. Sept., 1884; July, 1886.
59 60 61	Knoxville Folsom Sacramento	Sacramento	38 38	40 34	121 121	09 26	197 82	1 14 38	0 10 4	Sept., 1 Sept., 1 Sept., 1	871	Aug., 1 June, 1 Dec., 1	r86	Central Pacific R. R. Lieut. W. A. Glassford. Signal Service. Lieut. W. A. Glas ford.
62 63		do		33 31	121 121	20 27	50 53	2 10	3 3	June, 1 Sept., 1		Mar., 1 Nov., 1	852 887	Dr. R. V. Abbott, U. S. Army. Central Pacific R. R. William I Hall.
64	Galt	do	38	15	121	15	49	10	2	Sept., 1	877	Nov., 1	887	Central Pacific R. R. William 1 Hall. Oct., 1887.
85	Ione	Amador	38	20	120	56	287	10	5	July, 1	877	Nov., 1	887	Central Pacific R. R. Lieut. W.
66 67	Jackson	do do Alpine.t	38	20 20	120 120	50 43	934	12 9	7 0	Oct., 1 July, 1	877	Apr. 1 June, 1	886	Lient. W. A. Glassford. Do.
68 69 70	Eluira	Solano do do	38	27	121 121 121		304	1 1 8	0 11 1	Jan., 1	886	June, 1 Nov., 1 Apr., 1	887	Do. Central Pacific R. R. Lieut. W. A. Glassford. Prof. C. Simmons. Record broke June, Aug., Sept., 1869; Ma 1870, to Nov., 1879, inclusiv
71 72	Denverton Suisun and Fair- field.	do	38 38	14 13	$\frac{121}{122}$	54 00	10	13 16	6 2	July, 1 Sept., 1	873 871	Dec., 1 Nov., 1	886 887	June to Sept., 1886, inclusive. Lieut. W. A. Glassford. Central Pacific R. R. William Hall. June, 1885.
73 74		do	38 38	80 00	$\frac{121}{122}$	30 14	23	7	7 2			Jan., 1 Nov., 1		Lieut. W. A. Glassford. Central Pacific R. R. William
75 76		do do		05 02			64	3 32	0	July, 1 Nov., 1	883 849	June, 1 Nov., 1		Hall. Sept., 1884, Lieut, W. A. Glassford. Reco broken. Sept., 1805, to Aug., 187 inclusive; Drec., 1849, Apr., Ma 1850; Dec., 1860; Dec., 1861; Apr 1852; Jan., Oct., 1843; Mar., 186 Dec., 1872, to Mar., 1873, inclusiv
77	Point Bores	Calaveras.† Marin	38	00	123	0 0	296	10	11	Jula 1	975	May, 1	99A	Lieut. W. A. Glassford.
78	San Rafael	do		59 55	122 122	51 40	25	12	0 8	July, 1	874	June, 1	846	Do.
79 80	Saucelito	do	37	50	122	30 28	50	5	0	July, 1	881	Feb., 1 June, J	886	Do.
81	Anger Istand	do	37	48	122	20	30	18	9	Jan., 1	808	X0V., 1	861	U. S. post hospital. Lieut. W Glassford. May, 1871, to Jun 1872 inclusion
82 8J	Point Bonita Mare Island	San Francisco	37 38	48 06	122 122		124 29	10 2		July, 1 Jan., 1		May, 1 Dec., 1		1872, inclusive, Lieut. W. A. Glassford. U. S. post hospital. Record broke May., Aug., Sept., Oct., Dec., 186 Apr. to Sept., 1869, inclusive; Ja 1870, to Sept., 1871, inclusive May to Sept., 1872, inclusive; M
.84	Alcatraz Island	do	37	49	122	27	45	28	3	July, 1	861	Nov., 1	887	to Sept., 1873, inclusive. Lieut. W. A. Glassford. Reco broken. Sept. to Dec., 1861, inc sive; Mar., Aug., Sept., Nov., 18 Jan., May, Oct., 1863; May, 18 to Nov., 1865, inclusive; May Aug., 1866, inclusive; Oct., 186
85	Fort Point	do	37	48	122	26	100	14	11	Jan., 1	860	Dec., 1	874	Feb., 1873; Apr., May, 1874. Lieut. W. A. Glassford. Sept., 18
86 87	San Francisco	do	37 37	48 48	122 12 2	26 20	97	38 13	6	July, 1 Feb., 1	849	Dec., 1 May, 1	887	Signal Service. Thomas Tennan Lieut. W. A. Glassford. Reco broken. Mar., June, 1869; Feb. Aug., 1871, inclusive; Nov., 18 to June, 1872, inclusive; Oct., 18
88	Presido	do	37	47	122	26	150	34	6	Ma r., 1	850	Nov., 1	887	to Apr., 1873, inclusive; Oct., 18 to Aug., 1875, inclusive; Lieut. W. A. Glassford. Willis H Hall. Record broken. Ap 1850; July, 1850, to June, 1852, clusive; Sept., 1861, to Oct., 18
89 90	Farallon Islands Point San José		87 37	44 42	123 12 2	00 25	331 80			July, 1 Oct., 1				inclusive. Lieut. W. A. Glassford.

t No data.

THE WESTERN STATES AND TERRITORIES.

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CALIFORNIA-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

					· · _			Record.		
No.	Name of station.	County.	Lat. itude.	Lon- gitude.	Eleva- tion.		- 1			Remarks as to observers and miss- ing records.
		-	nuue.	gitude.		Lengt	th.	From-	To (inclu- sive)—	115 1600148.
			· ·	0 1	Feet.	Vre	' v			
191		Contra Costa		121 48	25		2	Sept., 1878	Nov., 1887	Central Pacific R. R. William H. Hall. Dec., 1885.
192		do		121 53	9		3	Sept., 1877	Nov., 1887	Central Pacific R. R. William H. Hall.
193	Kast Brother Isl- and.	do		122 24	63		8	Dec., 1875	May, 1886	Lieut. W. A. Glassford.
194 195		do		' 121 37 121 55	80 76		0	Sept., 1879 Jan., 1870	Nov., 1887 Apr., 1870	Central Pacific R. R. William H. Hall. July, Dec., 1885; Dec., 1886. C. L. McClung.
196	Mount Diablo	do	37 54 37 54	121 35			6	July, 1874	June, 1877	Lieut. W. A. Glassford. Record broken. Sept. to Feb., inclusive,
197	Byron	do	37 54	121 33	33	7 1	u	Sept., 1879	Nov., 1887	missing for one year. Central Pacific R. R. William H. Hall. June, Dec., 1885; Sept., Oct.,
198	Camp Union	San Joaquin	38 34	121 26	54	1	1	Jan., 1865	July, 1867	1887. U. S. post hospital. Record broken. Probably from Sept., 1865, to Mar.,
190	Farmington	do	37 57	121 00	111	10	3	Sept., 1876	Nov., 1887	1867, except one month. Central Pacific R. R. William H. Hall. Sept., 1877, to Aug., 1878,
200	Stockton	do	37 51	121 15		24	1	Jan. , 1853	Nov., 1887	inclusive. Central Pacific R. R. William H. Hall. Feb., 1857, to Aug., 1867,
201	Lathrop	do	37 50	121 16	25	10	3	Sept., 1877	Nov., 1887	inclusive; Sept., 1884; July, 1885; Nov., 1885. Central Pacific R. R. William H.
202	Ellis and Tracy	Tu olumne Mono.t				17	1	Sept., 1870	Nov., 1887	Hall. William H. Haff. Contral Pacific R. R. Nov., 1886 :- Sept., 1887.
203 204	Berkeley Oakland	Alameda	37 52 37 48	122 16 122 18	25	0 14	6 8	Dec., 1886 Sept., 1873	May, 1887 Nov., 1887	Lieut. W. A. Glassford. William H. Hall. Central Pacific R. R.
205 206	Livermore Pleasanton	do	37 42 37 42	121 46 121 47	485 360		8 10	Sept, 1870 Sept., 1877	Nov., 1887 Oct., 1887	Do. William H. Hall. Central Pacific R. R. Aug., Oct., 1885; Nov., Dec., 1886.
207		do		121 57	87	17	1	Sept., 1870	Nov., 1887	William H. Hall. Central Pacific R. R. Nov., 1886; Apr., 1887.
208 209	Midway Calaveras Valley	do	37 33 37 30	121 30 121 54	626	2 4	0	Sept., 1877 Sept., 1878	Aug., 1879 Aug., 1884	William H. Hall. William H. Hall. Sept., 1880, to
210 211	Marsh Ranch Langworth	Stanislausdo	37 53 37 45	121 42 120 54	153	0	6 0	Nov., 1867 July, 1881	May, 1868 June, 1886	Aug. 1882, inclusive. F. M. Rogers. Feb., 1868. Lieut, W. A. Glassford. July, 1882,
212 213	La Grange Modesto	do	37 42 37 40	120 28 121 00	250 90		0 2	July, 1867 Sept., 1870	June, 1886 Nov., 1897	to June, 1883. inclusive. Lient. W. A. Glassford. William H. Hall. Central Pacific R. R. Nov., 1885.
214 215	Turlock	do	37 32	121 12 120 51	55 106	14 9		Sept., 1870 Sept., 1878	Aug., 1884 Nov., 1887	William H. Hall. William H. Hall. Central Pacific R. R.
216		do Mariposa.t		121 OJ	72	1	0	July, 1880	June, 1886	Lieut. W. A. Glassford.
217	•	San Mateo		122 16		1	3	Sept., 1873	Nov., 1887	William H. Hall. Central Pacific R. R.
218 219		do do 		122 16 122 11	220 72	÷	9	Sept., 1875 Mar., 1878	Aug., 1884 Nov., 1887	William H. Hall. William H. Hall. Central Pacific R. R.
220 221		do		122 14 122 21	1	10 :	10	Jan., 1884 July, 1875	June, 1886 May, 1886	Licut. W. A. Glassford. William H. Hall. Licut. W. A. Glassford. Dec., 1878. Licut. W. A. Glassford.
222 223 224 225	San Andres Pilarcitos	do do do	37 05	121 25		16 20	10 0 0 9	Sept., 1875 Sept., 1868 Sept., 1864 Sept., 1875	June, 1886 Aug., 1884 Aug., 1884 Nov., 1886	William H. Hall. Do. William H. Hall, Lieut. W. A.
226	Mount Hamilton	Santa Clara	39-13	120 36	4, 250	3	8	Jan., 1881	Aug., 1884	Glassford. William H. Hall.
227 228 229	Murphy's Wright's	do do do	38 08 37 39	120 28 121 18 121 50	2, 200 94		10 5 2	Mar., 1868 Nov., 1885 Sept., 1873	Mar., 1869 Mar., 1887 Nov., 1887	E. Cutting. July, Ang., Nov., 1868. Lieut. W. A. Glassford. William H. Hall. Central Pacific R.
2 30		do		121 58	80	6	0	Sept., 1878		R. Oct., 1884. Lieut. W. A. Glassford. Parts of
231	Los Gatos	do	37 14	122 02	. 600	2	4	Feb., 1884	May, 1887	months missing. Lieut. W. A. Glassford. One year from Feb. to May, inclusive, missing
232	Tennant	do	37 06	121 34	335	8	1	Sept., 1877	Oct., 1885	missing. William H. Hall. Central Pacific R. R. May, 1885.
223		do	1	121 03	261	14		Sept., 1873	Nov., 1887	William H. Hall. Central Pacific R. R. Sept., 1885; Nov., 1886.
234 235 236	Livingston Central Point Merced	Merced	37 24 37 18 37 17	120 47 121 00 120 30	117 17	1 7 16	4 0 1	Jan., 1886 July, 1879 Sept., 1871	Apr., 1897 June, 1886 Oct., 1887	Lieut. W. A. Glassford. Do. William H. Hall. Central Pacific R.
237 238	Athlone Los Banos	do	37 15 37 04	120 25 120 46			0 6	Dec., 1885 Jan., 1875	Nov., 1887 Aug., 18:6	R. Feb., 1886. Central Pacific R. R. Lieut W. A. Glassford. Apr., June,
239	Aptos	Santa Cruz	36 59	121 57			4	July, 1884	Nov., 1887	missing for one year. Central Pacific R. R. Sept., 1884.
	S. Ex. 91_	6			t No	data.				

S. Ex. 91-6

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BAIN-FALL OF THE PACIFIC COAST AND

CALIFORNIA-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

				•	F21.		Record.		Demosiles as to alternate and a
No.	Name of station.	County.	Lat- itude.	Lop- gitude.	Eleva- tion.	Length.	From	To (inclu- sive)—	Remarks as to observers and miss- ing records.
240	Santa Cruz	Santa Cruz	° / 36 53	。 , 122 25	Feet.	Yrs. M. 11 11	Sept., 1873	Nov., 1887	William H. Hall. Central Pacific R R. Record broken. Jan., July Aug., Sept., Oct., Dec., 1874; May June, July, Sept., Dec., 1875 Mar., Apr., June, July, Aug., 1876
241 242	Loma Prieta Watsonville	do	36 58 36 56		45	0 5 2 1	Jan., 1884 Jan., 1869	May, 1884 Feb., 1872	Sept., 1876, to Aug., 1877, inclusive Central Pacific R. R. Dr. A. J. Compton. Record broken June to Aug., 1869, inclusive June, Aug., Sept., Dec., 1870; Apr.
243 244 245	Buchanan	do Fresno do	36 59 37 12 37 00	121 58 120 00 119 40	402	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Jan., 1885 Sept., 1878 July, 1851	July, 1886 Aug., 1882 June, 1858	William H. Hall.
246 247	Hamptonville Borden	do do	36 58 36 57	119 45 120 03	331 274		Jan., 1879 Sept., 1875	Aug., 1880 Nov., 1887	William H. Hall. William H. Hall. Central Pacific R R.
248 249 250	Firebaugh Ferry Freeno	do do do	36 53 36 50 36 44	119 51	150 295	7 4 13 7 10 1	Sept., 1871 Dec., 1872 Sept., 1877	Dec, 1878 June, 1886 Oct., 1887	William H. Hall. Licut. W. A. Glassford. William H. Hall. Central Pacific R R. Sept., 1885.
251	terville).	do	36 44	120 22		59	Dec., 1878	Aug., 1884	William H. Hall
252 253		do	36 30 36 27	119 33 120 22	301	93 45	Sept., 1878 July, 1881	Nov., 1887	William H. Hall. Central Pacific R R. Lieut. W. A. Glassford. Jan. to
254		do		120 22	·····	1 8	Jan., 1886	June, 1886 Oct., 1887	July, 1883, inclusive. Central Pacific R. R. Nov., 1886
255	Hollister			121 25	292	14 3	Sept., 1873	Nov., 1887	Sept., 1887. William H. Hall. Central Pacific R
256	San Benito	do	36 08	121 02	140	1 3	Nov., 1861	May, 1863	R. Dr. C. A. Canfield. July, Aug.
257	Pajaro	Monterey	36 54	121 44	31	14 3	Sept., 1878	Nov., 1887	Sept., Dec., 1862. William H. Hall. Central Pacific R R.
258 259	Salinas Monterey	do do	36 38 36 36	121 39 121 52		15 3 11 9	Sept., 1872 May, 1847	Nov., 1887 Nov., 1887	Do. William H. Hall. Contral Pacific B. R. Record broken. S. pt., 1848, ta Apr., 1849, incluaive; Jan. to June 1851, inclusive; Sept., 1852, to Feb. 1880, inclusive; Apr., 1886; July
260 261		do		121 26 121 18	111 188		Nov., 1876	May, 1687	1887. Lieut. W. A. Glassford, William H Hall. Central Pacific R. R. Record broken. Apr., June, Nov., Dec. for one year; May for two years William H. Hall. Central Pacific R
262		do	36 0')	121 15		4 9	Sept., 1873 Sept., 1882	Nov., 1887 May, 1887	R. Lieut. W. A. Glassford.
263 264	Gonzales	do	35 57	121 14	· • • • • • • • •	94	Jan., 1877 Oct., 1886	Apr., 1886 Nov., 1887	Do. Central Pacific R. R.
265 266 267	San Ardo	do Tulare do			335			Nov., 1887 Aug., 1884 May, 1886	Lo. William H. Hall. Lieut. W. A. (Hassford. Recor- broken. June to Sept., 1870, in clusive; Mar. to June. 1871, in clusive; Ang., 1871, to June, 1877
268	Fort Babbitt	do	36 20	119 23	· • • • • • • • • • •	¹ 09	Dec., 1864	Feb., 1866	June to Sept., 1865, inclusive
269	Goshen	do	36 19	119 21	286	96	Dec., 1875	ⁱ Nov., 1887	Dec., 1865. William H. Hall. Central Pacific R R. Sept., 1876. to Jan., 1879, inclu- siver, June 1884
270 271		do		119 33 119 44	•••••••	75 91	Feb., 1879 Sept., 1878	June, 1866 Nov., 1887	 sive; June, 1884. Lieut, W. A. Glassford. William H. Hall. Central Pacific R B. Sant 1984. July 1998
272	Tulare	do	36 13	119 19	289	18 2	Sept., 1874	Nov., 1887	R. Sept., 1884; July, 1886. William H Hall. Central Pacific R R. Nov., 1886.
273 274		do			·		Feb., 1879 Jan., 1886	Nov., 1886 Sept., 1887	Lieut, W. A. Glassford. Central Pacific R. R. Nov., Dec.
275	Bishop Creek	Іпуо	37 24	118 09	·····	37		1 .	1886; May, 1887, Central Pacific R. R., Lieut. W. A Glassford. Record broken. Jan. Feb., 1884; Nov., 1885; Mar., Nov.
276	Camp Independ- ence.	do	36 5 5	118 10	3, 958	10 11		Aug., 1877	1886. William H. Hall. Record broker May to Aug., 1866. inclusive; Oct Dec., 1866; Sept., Oct., Nov., 1867 Apr. May 1870
277		do		117 54	3, 622	37	Apr., 1884	Dec., 1887	Apr., May, 1870. Lieut. W. A. Glassford. Signa Service. Jan., Feb., 1885.
278 279	San Miguel	San Luis Obispodo	35 44 35 30	120 40 120 42			Dec., 1886 Nov., 1886	Nov., 1887	Central Pacific R. R. Do.

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THE WESTERN STATES AND TERRITORIES.

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CALIFORNIA—Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

				İ					Re	cord.			
No.	Name of station.	County.	Lat- itude.		on- ude.	Eleva- tion.	Ler	ngth.	From	 0	To (ii sive		Remarks as to observers and miss- ing records.
281	Fort Harford	San Louis Obispo .	• •	- 1 o	,	Feet.	Yri 1		Dec.,	1884	Apr.,	1896	Lieut. W. A. Glassford. Feb., 1880
282		Kern		1 11	9 14	819	12		Sept.,		Nov.		or 1886. William H. Hall. Central Pacific R.
283		do		1	8 58	422	13		Sept.,		Nov.,		R. Nov., 1885; Oct., 1887. William H. Hall. Central Pacific R.
284		do			8 37	1, 293	11		Sept.,		Nov.,		R. William H. Hall. Central Pacific R.
285		do			8 24	3, 964		10	Nov.,		Oct.,		R. Dec., 1886. William H. Hall. Central Pacific R.
286	-	do			8 38	2,705	10		Sept.				R. Feb., 1885; Oct., 1886. William H. Hall. Central Pacific R.
287	•	do			8 18		1	10	• •		Nov.,		R. William H. Hall. Central Pacific R.
201			0 4 00		o 19	2, 751	10	10	Sept.,	1870	Nov.,	1887	B. Record broken. Feb. 1883; Sept., Nov., Dec., 1884; Apr., Nov., 1886.
288	-	do	34 25		8 55	3, 246	6	0	Маг.,	1855	∆ug.,	1864	William H. Hall. Record broken. July, 1855; Feb., Apr., 1859: Nov., 1859; June to Dec., 1860, inclusive; June, 1861, to Oct., 1863, inclusive; Dec., 1863; Mar., 1864.
289 290	MoClung Ranch Camp Cady	San Bernardino	34 55	i ii	6 41	3,000	32	0 2	Sept., May,	1879 1868	Aug., June,	1882 1876	William H. Hall. Do.
291 292	Daggrut	do	⊖ 1 4 02	. 11	6 54 5 12			0	Sept., Sept.,	1883	Ang.,	1884	Do. William H. Hall. Central Pacific R.
293							1	1	Sept.,		Sept.,		R. Do.
291 295	San Bernardino	do do do	34 00 34 03	11	7 18	1, 118		0	July, Nov.,	1870	June Feb.,	1886	Lieut. W. A. Glassford. Do.
296	Ontario	do	34 04				2		Dec.,	1883	May,	1887	Lieut. W. A. Glassford. Missing at intervals.
297	Colton	do	34 03	i n	7 18	965	11	0	Sept.,	1876	Oct.,	1887	William H. Hall. Central Pacific R.
298	RanchodeJurupa.	do	34 00	' 11	7 25	1,000	1	11	July, I	1851	Mar.,	1854	B. July, Aug., 1881. U. S. post hospital. Nov., 1851, to
299 3JU	Riverside San Gorgonia	do do	33 56 33 55		721 659	1, 030	5 5		Sept., Oct.,	1890 1874	Арт., Nov.,	1886 1887	Aug., 1852, inclusive. Lieut, W. A. Glassford. John J. Ring. Record breken. Nov., 1874; Apr., Sept., and Nov., 1875; July, 1878, to Dec., 1885, inclusive;
301	Rings Station	do						10	Nov.,	1874	Aug.,	1882	Mar., Dec., 1886. William H. Hall.
302 303	Arroyo Grande Santa Maria	Santa Barbara do	35 05 34 58	12	031 029		1	6 11	Dec., Dec.,		June, Apr.,	1886 1887	Lieut. W. A. Glassford. Feb., 1885. Lieut. W. A. Glassford. Broken. February, missing for one year; May to Sept., inclusive, missing for
304	Gùadaloupe	do	34 44		0.39	33	1	7	Oct.,	1885	Apr.,		one year. Lieut. W. A. Glassford.
305 306	Point Conception .	do	34 40 34 20	12	0 24	258	10	0	Dec., July,	1876	Apr., June,	1886 1886	Lieut. W. A. Glassford. Mar., 1885. Lieut. W. A. Glassford.
307	Santa Barbara	do	34 25	•		20	20		July,		Nov.,	1887	Lieut. W. A. Glassford, G. P. Teb- betts, and Elwood Cooper.
308	Nordboff	Ventura	34 27	11	9 08	1, 200	5	5	Dec.,	1881	Мау,	1887	Lieut. W. A. Glassford. May, miss- ing for one year.
309 310	San Buenaventura Los Angeles	do Los Angeles	34 17 34 52		9 31 8 18	50 5 71	11 16	0	July, Sept.,		June, Dec.,	1886 1887	Lieut. W. A. Glassford.
311	Ravenna	do	34 30	11	8 12	2, 358	8	1	Sept.,	1879	Nov.,	1887	Signal Service. William H. Hall. William H. Hall. Central Pacific R. R. May and June, 1887.
312	Newhall	do	34 24	11	8 34	1, 268	11	3	Sept.,	1876	Nov.,	1887	William H. Hall. Central Pacific R. R.
313	San Fernando	do	34 17	11	8 27	1,066	9	6	Sept.,	1877	Aug.,	1887	William H. Hall. Central Pacific R. R. Broken. June, Nov., 1884; Feb., Mar., and Dec., 1886; May. 1887.
314 315	Cahuenga Valley El Monte	do	34 09 34 04		829 805	800	-42	2 3	Jan., Dec.,			1887 1876	Lieut W. A. Glassford. Dec., 1886. George H. Puh. Record broken. Mar. to July, 1873, inclusive; Sept., 1873; June to Sept., 1874,
													inclusive; Nov., 1874; Mar. to June, 1875, inclusive; May to Sept., 1876, inclusive.
316	Spadra	do	34 03	1 11	7 46	705	13	0	Sept.,	1874	Nov.,	1887	William H. Hall. Central Pacific R. R. Feb., 1885; May and Sept., 1887.
317	Santa Monica	do	34 01	11	8 30	50	3	8	Sept.,	1879	Nov	1877	William H. Hall. Central Pacific R. R. Sept., 1880, to Feb., 1885, in- clusive; Dec., 1885.
318 319		do			8 07 8 22	112 83	1 5		Dec., May,	1885 1864	May, ▲pr.,	1887 1870	 Lieut, W. A. Glassford. William H. Hall. Apr. to Aug., 1866, inclusive; Apr., Oct., and Nov., 1867; Nov., 1868; Oct., 1869.
820	Orange	do	33 48	11	7 55	·····	1	4	Dec.,	1884	May,	1886	1867; Nov., 1868; Oct., 1869. Lieut. W. A. Glassford. Jan. and Feb., 1885.



BAIN-FALL OF THE PACIFIC COAST AND

CALIFORNIA-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

									Re	cord.			
₹o.	Name of station.	County.	Lat- itude.	Lon gitud		Eleva- tion.	Len	gth.	From	n	To (in sive		Bemarks as to observers and miss ing records.
21	Anahoim Barracks	Los Angeles	o / 38 48	° 117		Feet. 250	Yrs 10	<u>М</u> . 3	Sept.,	1877	Nov.,	1887	William H. Hall. Central Pacific I R
22 23 24 25	Whitewater	do San Diego do do	33 57 33 56	116	48	12	7	0 2	Oct., Sept., Aug., Sept.,	1877 1884	June, Aug., Sept., Sept.,	1884 1885	Lieut. W. A. Glassford. William H. Hall. Central Pacific R. R. William H. Hall. Central Pacifi R. R. Jan., Feb., 1886.
26		do				700	10	4	Jan.,	1876	Feb.,	18 87	Lieut. W. A. Glassford. Oct., 189 to Jan., 1881. inclusive; Aug. Nov., 1886. inclusive; Jan., 188 and June, for one year.
27	San Luis Rey	do	38 81	117	20	20	3	5	July,	1850	June,	1878	G. T. Merriam. U. S. post hospita Apr. to July, 1851, inclusiv Sept., 1851, to Nov., 1875, inclusiv
28 29 30	Escondido Julian Mammoth	do do do	83 18 33 08 33 06	116	37		5	4	Nov.	1875	June, Aug., Nov.,	1884	Lieut. W. A. Glassford. Do. William H. Hall. Contral Pacific.
81		do											R. July, 1887. Lieut. W. A. Glassford. Dec., 188 Jan. and Feb., 1887.
32 33	Viejas Fort Yuma	do do	32 48 32 46	116	41 40	200	0 31	9 5	Dec., Jan.,	1875 18 51	Oct., Dec.,	1876 1887	 W.S. Emery. May and Aug., 18' William H. Hall. Central Pacific R. Record broken. May, 18' to May, 182; inclusive; Sept. 1855; July, 1857; Sept., Oct., as Nov., 1861; Oct., 1862; to Fei 1866, inclusive; May to Au 1866; inclusive; Oct., 1866; May
4	San Diego	do	32 43	117	10	67	25	10	Jan.,	1850	No v .,	1 8 87	and May, 1868; Dec., 1883. Liout. W. A. Glassford. Sign Service. Record broken. Jan. May, 1859, inclusive; Jan., 19
15 16	Campo Otay Mesa	do	32 30	116	44		5 2	5 3	Mar., Nov.,	1877 1884	Sept., Feb.,	1882 1887	to Aug., 1871, inclusive. Signal Service. Nov., 1877; July, 18 Lieut. W. A. Glassford. Jan., mi
17 18	Oakwood Paradise Valley	do do		-	•••		1 0	4 6	Jan., Jan.,	1876 1873	June, Dec.,	1877 1873	ing for one year. F. E. Fox. Apr. and May, 1876. J. M. Asher. Mar., May, Jur July, Sept., and Oct., 1873.



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Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

Name and number of station. 0. Camp Lincoln	13.69 9.97 3.19 4.84 2.88 3.67 1.52 4.24	Max 26. 23 18. 28 12. 26 11. 78 13. 95 6. 15 6. 35	imum. Yrs. 1867 1861 1881 1881 1881 1858	Mini Ins. 7.34 10.77 7.68 1.13	mum. 1868 1883 1860		Maxi Ins. 11. 29	mum. <i>Yrs</i> . 1867	Mini Ins. 3, 95	mum. <i>Yrs.</i> 1869	A ver- age. Ins. 11, 20	Maxi Ins. 16, 72	mum. Yrs. 1868	Minis Ins.	mum. Yrs
1, Creacent City. 2, Fort Ter Waw. 3, Yreka 4, Scott Valley. 5, Fort Jones. 6, Berryvale. 7, Almaden 8, Fort Bidwell. 9, Little Hot Springs.	. 16. 87 13. 69 9. 97 . 3. 19 . 4. 84 . 2. 88 . 3. 67 1. 52 . 4. 24	26. 23 18. 28 12. 26 11. 78 13. 95 6. 15	1867 1861 1881 1881	7.34 10.77 7.68	1868 1863	6.68	11. 29								Yrs
1, Creacent City. 2, Fort Ter Waw. 3, Yreka 4, Scott Valley. 5, Fort Jones. 6, Berryvale. 7, Almaden 8, Fort Bidwell. 9, Little Hot Springs.	. 16. 87 13. 69 9. 97 . 3. 19 . 4. 84 . 2. 88 . 3. 67 1. 52 . 4. 24	26. 23 18. 28 12. 26 11. 78 13. 95 6. 15	1867 1861 1881 1881	7.34 10.77 7.68	1868 1863	6.68	11. 29								
1, Creacent City. 2, Fort Ter Waw. 3, Yreka 4, Scott Valley. 5, Fort Jones. 6, Berryvale. 7, Almaden 8, Fort Bidwell. 9, Little Hot Springs.	13.69 9.97 3.19 4.84 2.88 3.67 1.52 4.24	18. 28 12. 26 11. 78 13. 95 6. 15	1861 1881 1881	10.77	1883								INNX	4.59	186
2, Fort Ter Waw 3, Yreka. 4, Scott Valley. 5, Fort Jones. 6, Berryvale. 7, Almaden 8, Fort Bidwell. 9, Little Hot Springs.	9.97 3.19 4.84 2.88 3.67 1.52 4.24	12.26 11.78 13.95 6.15	1881 1881	7.68			23.32	1882	3.52	1883	6.29	9. 61	1884	0 84	100
3, Yreka 4, Scott Valley	3. 19 4. 84 2. 88 3. 67 1. 52 4. 24	11.78 13.95 6.15	1881 1881			8.78	10.39	1861	7.17	1860	4.51	8.53	1860	0.48	186
4. Scott Valley	4.84 2.88 3.67 1.52 4.24	13.95 6.15	1881		1885	1.75	3.91	1878	0. 19	1875	1.55	3.96	1879	0. 19	188
5, Fort Jones 6, Berryvale 7, Almaden 8, Fort Bidwell 9, Little Hot Springs	2.88 3.67 1.52 4.24	6.15		1.12	1861	2.93	6.94	1872	0. 17	1875	2.52	9.20	1866	0.64	186
6, Berryvale 7, Almaden 8, Fort Bidwell 9, Little Hot Springs	. 3.67 1.52 . 4.24			0. 54	1854	4.10	8.78	1858	0.42	1856	2.77	5. 24	1855	0.75	185
7, Almaden 8, Fort Bidwell 9, Little Hot Springs	1.52	0.00	1882	0.99	1883	2.00	2.90	1882	1. 10	1883	5.94	10.15	1883	1.74	188
8, Fort Bidwell 9, Little Hot Springs	4. 24		1004	V. 88	1000	8,60	2.80	1004	1. 10	1000	0.92	10.15	1000	1. 12	100
9, Little Hot Springs		12.71	1870	0.75	1878	2.71	6.00	1881	0.07	1875	2.25	6.70	1867	0.04	188
	. 0.00		1010	0.75	1010	2. 81	0.00	1001	0.01	1010	3.00	0.70	1901	0.04	100
		26. 50	1866	4.80	1865	7.99	18.00	1866	0.59	1875	7.50				
0, Fort Gaston		20.00	1900	4.00	1900		18.00	1900	0. 59	1875		34. 52	1866	0. 88	18
L Blue Lake			· • • · · • • • •			7.34		••••		•••••	3.98		• • • • • • •	•••••	•••••
2, Arcata					••••••••	6.07				•••••••	3.08		••••••••		••••
3, Fort Humboldt.		10.62	1866	1.82	1865	5,96	10.10	1859	1.97	1856	5. 30	10.94	1866	1.21	18
4, Humboldt Light-House		10.92	'78 '81	2.95	1884	4.64	9. 09	1882	0.27	1877	4.46	8.83	1879	0.15	••
5, Bydesville		8.73		4.43	· · ·	3.76	4.30		3.43		3.47	7.03		0. 24	• •
6, Cape Mendocino		4.61	1886	1.27	1884	1.89	2.86	1883	1.37	'85 '86	1.90	3. 52	1884	0.34	18
7, Orle ans		11. 61		5.71		3. 78	5.16		2.41		2, 10	3.45		0.85	• •
8. Weaverville		19.83	1878	2.02	1879	5.75	16. 20	1878	0.46	1875	4.72	12.84	1879	0.15	
9, Fort Crook	. 3.16	8.22	1862	1. 10	1864	3. 33	4.89	1862	0.00	1864	8.52	8.25	1866	0.58	18
0, Delta	6.65	15.57	1884	1.00	1883	3. 56	10.27	1887	0.00	1883	7.03	14. 46	1883	0.37	18
1. Anderson				 .		0.38		 .		• • • • • • • •	1.08				
2, Reed's Camp	12.40	31. 76	1881	1.00	1883	7.48	15.37	1882	0.00	1883	11.45	14.46	1883	8.04	18
3. Redding		22, 69	1878	1.78	1883	4.98	13.78	1878	0.16	1875	3. 91	10. 54	1879	0.00	18
4. Fort Reading		8.25	1856	2,90	1854	3.27	6.95	1855	0.80	1856	8.91	7.11	1853	0.80	18
5. Red Bluff		20. 71	1878	0.62	1887	3.87	16. 66	1878	0.00	1886	2.54	7.99	1884	0.00	18
6. Tehama		11. 35	1878	0.00	1872	2.37	7.00	1878	0.00	1875	1.64	4.94	1884	0.05	18
7. Corning					1012	2.90		1010	0.00		2.09		1001		10
8. Indian Valley			••••		•••••	8.33		•••••		•••••	3. 30		•••••		
9. Meadow Valley			•••••		••••	6.05	• • • •			••••••	6. 21				• • • • •
0. Mumford Hill.		18.15	1878	9.94	1882	12.33	26.52	1878	5.00	1877	10.71	30.15	1879	3.60	18
l Camp Wright		15.83	1866	2.66	1871	6.50	19.78	1872	1.06	1875	5. 22	11.80	1866	1.76	18
2. Laytonville		9.85		4.94		2.45	3.84		0.30		3. 29	6.22		0.22	
3. Westport		0.00	•••••	3.02	• • • • •	3.54	3.04	•••••	0.00	••••	2. 52	0. 22	••••	0.22	••
		27. 49	1878	3.98	1883	8.90	23. 66	1878	1.37	'85 '86		00 00	1070		18
4, Mendocino		21.99	1010	3.80	1000		23.00	1919	1. 3/	00 60	7.36	22.09	1876	0.34	10
5, Cahto		10.00	1070		•••••	10.00	1.7.07	1070		•••••	10.05		1070		
6, Ukiah		19.03	1878	2.51		4.78	17.24	1878	0.23	1000	4. 57	14. 47	1879	0. 25	
7, Point Arenas		18.40	1878	1.74	1883	5.16	17. 26	1878	1.10	1883		11.05	1876	0.28	••
8, Orland	. 1.98		. . .	·•••••	••••	2.05		• • • • • • • •		••••••	2. 07	· • • • • • •	•••••		
	1	1	•	1		<u>11</u>	1		1		1 ¹	1		·	
	1		A pril.			11		May.						-	and the owner of the owner.

			A pril.	,				Мау.					June.		
Name and number of station.	Aver-	Maxi	imum.	Mini	imum.	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Maxi	mum.	Mini	imum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
70, Camp Lincoln	7.16	10.06	1867	3.99	1869	0.92	1.90	1868	0.27	1869	3.15	5.11	1+68	1.20	1869
71, Crescent City	8.58	16.20	1882	1. 32	· · · · ·	2.75	4.24	1882	1.47		2. 31	10.10	1881	0.11	
72, Fort Ter Waw	. 6. 07	8. 20	1861	3.47	1859	3.63	5.12	1860	2.00	1859	0.18	0.30	1859	0. 05	1860
73, Yreka	1.04	2.23	1880	0.17	1875	0.83	1.76	1883	0.00	1881	0.39	1.78	1884	0.00	(1)
 74. Scott Valley 		5. 89	1880	0.02	1866	0.98	2.65	1883	0.05	1865	0.46	1.93	1863	0.00	1883
75, Fort Jones		1.99	1854	0.00	1857	1.21	2.77	1856	0.21	1854	0.69	1.86	1857	0.08	1855
76, Beri yvale		6. 15	1883	1.65	1882	0.30	0.60	1882	0.00	1883	0.0J	0. OU	••••	0.00	••••
77, Almaden	. 1.60		••••		••••	0.00	:*::*				0.00				• • • • • • • •
78, Fort Bidwell	. 1.68	5.60	1880	0.00	1871	1.37	4.66	1877	0.00	1867	1.13	4.29	1884	0.00	1888
79. Little Hot Springs						1.51					0.76		••••	. :::	
80, Fort Gaston		13. 95	1880	0. 28	1886	1.74	4.30	1883	0.35	1865	0.75	2. 94	1862	0.00	(¹)
81, Blue Lake			•••••••		••••••	2.08	•••••	••••••••		•••••	1.04	• • • • • •	• • • • • • •		
82, Arcata	. 7.38	E 20	1054	0.00	1005	1.32		1000	1	1007	0.00				100 100
83, Fort Humboldt		5. 58 6. 53	1854	0.00	1865 1881	1.24	3.83	1860 1880	0.01	1865 1881	0.47	1.60	1855	0.00	'60 '65
84, Humboldt Light-House		9.15	1886	1.76	1001	0.93	2.15 1.28	1886	0.00		0.36	1.46	1877	0.00	'81 '82 188 6
85, Hydesville		5.43	1886	0.92	1885	0.95	1.67	1883	0.33	1884	0.54	1.00	1885	0.00	
86, Cape Mendocino 87, Orleans		8.93	1990	2.48		1.02	1.67	1000	0.33	1004	0.58	1.32		0.02	1863
88. Weaverville		10.78	1880	0.19	1875	1. 75	4.02	1879	0.30	1870	0.40	2.93	1884	0.00	(¹)
89, Fort Crook		3.09	1860	0.87	1866	1. 25	3.06	1860	0.13	1858	0.55	2. 95	1862	0.00	'59'63
90, Delta.		16.55	1884	2.54	1885	4.55	9.94	1883	0.67	1885	2.03	7.12	1884	0.00	1883
91. Anderson		10.00	100#	2.04	1000	2.15	0.01	1000	0.01	1000	0.03	1.14	1004	0.00	1009
92, Reed's Camp		19.26	1880	4 11	1882	3.75	9.94	1883	0.00	1880	1.95	7.12	1884	0.00	(!)
93. Redding		9.73	1880	0. 01	1875	1.45	4.26	1883	0.00	(1)	0.45	0.95	1887	0.00	8
94. Fort Reading		5. 17	1855	2.87	1852	2.85	5.43	1855	0.78	1853	0.31	1.08	1852	0.00	'53 '54
95, Red Bluff		4.63	1886	0.00	1875	0.78	2. 11	1879	0.00	72 75	0.37	1.42	1885	0.00	(1)
96. Tehama		4.00	1886	0.00	1875	0.54	2.75	1883	0.00	(1)	0.24	1.55	1884	0.00	ෂ
97. Corning					10.0	0.44					0.02				
98. Indian Valley						0.50					0.00				
99. Meadow Valley						1.99					1.09				
100. Mumford Hill		23. 54	1880	2.10	1878	2.96	6.42	1880	0.84	1881	0.57	1.13	1879	0.00	(1)
101, Camp Wright	1.95	4.51	1869	0.36	1865	0.77	2.32	1875	0.01	1867	0.22	1.58	1868	0.00	(1) (2)
102, Laytonville	4.98	8.14		1.81		0. 24	0.41		0.08		0.34	0.39		0.29	
103, Westport	4.57					1, 38				• • • • • • • • •	0.31				• • • • • • • • • • • • • • • • • • •
104, Mendocino	4.77	15.09	1880	0. 10	1875	1. 81	2.90	1879	0.00	() ()	0.39	2.05	1875	0.00	(*)
105, Cahto						2.25	. 	.			0.02				
106, Ukiah	3. 52	11.78	1880	0.43		0.98	2.71	1883	0.08	1881	0.12	1.01	1884	0.00	(²)
107, Point Arenas		8,04	1880	0.00	1878	0, 82	1.76	1876	0.00	1882	0.22	1.13	1884	0.00	(I)
108, Orland	1.79		 .			0.66	 .	· · · · · · · ·	• • • • • • •	· · · · · · · · ·	0.34				
·		1				L					2				
(1) 72	1_			/*	Gane				17	r) Trace	ofrain	fall			
(¹) Frequent	ay.			(*)) Genera	ary.			(J	r) TIMO		.199111			

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

•			July.					August	t .			S	eptemb	er.	
Name and number of station.	Aver age.	Maxi	man.	Мірі	mum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.		imam.	Min	ím um .
	Ins.	Ins.	Yts.	Ins.	Yrs.	Ins.	Ins.	Yrs.		Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
70, Camp Lincoln		0. 05	1867	0, 0 0	1868	0.05	0. 10	1868	0.00	1867	0. 30	1.30	1867	0.00	1866
71, Crescent City	. 0.65	2.47	1881	0.00		0.08	0.32	1881	0.00	(4)	3. 49	7.23		1.45	1883
72, Fort Ter Waw	. 2.42	4.75	1859	0 08	1858	0.71	1.42	1858	0.00	1859	4.57	6. 61	1859	2.54	1860
73, Yreka		1.33	1884	0. U O	()	0.08	0.51	1864	0. 0 0	(2)	0.37	0.90	(1)	0.00	- ()
74, Scott Valley		2.49	1882	0.00	(1)	0.20	1.50	1876	0.00	(4)	0.50	1.44	1882	0.00	(!)
75, Fort Jones		0.20	1854	0, 00	(*)	0.07	0. 21	1854	0.00	(2)	0.20	0.6 0	1857	0.00	'54 '50
76, Berryvale		· · · • • • • •	••••		• • • • • • • •	0.00		• • • • • • • •			1. 19				• • • • • • • •
77, Almaden					• • • • • • • • •	0.00		••••••••	· · · · · · · ·		0.20		••••••••		
78, Fort Bidwell		0. 7 6	1870	0.00	(1)	0.20	1.40	18 6 7	0.00	- (P);	0.38	2.80	1867	0.00	(¹)
79, Little Hot Springs			••••••		•••• 2 ••	1.60	:::::				0.00				••••••
80, Fort Gaston		0.72	1863	0.00	(*)	0.11	0. 97	187 9	0.00	(*)	0.89	3.00	187 6	0.00	(¹)
81, Blue Lake		· · · · · ·		(T)	••••		 .		2.08		. 		
82, Arcata	. 0. 00			. 		0.00	· • • • • •		• • • • • •		0.00	' .			••••
83, Fort Humboldt	0. 19	0.90	1860	0. 00	(*)	0.07	0. 45	1858	0.00	(2)	0. 58	1.94	1859	0.00	(')
84, Humboldt Light-House		0.10	1879	0,00	(4)	0.04	0. 21	1879	0.00	(*)	0. 62	1.75	1883	0.00	(4)
85, Hydesville		0.05		0.00		0. 01	0. 02		0.00		0.87	2.40		1.05	• •
86, Cape Mendocino		0.46	1886	0.00	1883	0. 28	0.82	1885	0.00	82 ' 83	0.91	1.59	1885	0.15	1886
87, Orleans	. 0.32	0. 64		0.00		0.00	0.00		0.00		0.08	0. 16		0.00	
88, Weaverville		0.47	187 6	0.00	(*)	0.05	0. 36	1880	0.00	(*)	0.54	1.80	1873	0.00	(')
89, Fort Crook		2.22	1860	0.00	(²)	0.01	0. 05	1859	0.00	(*)	0.39	1.80	1859	0.00	(1)
90, Delta		0.25	1884	0.00	(*)	0.00	0.00		0.00		0.02	0.10	1882	0.00	1883
91, Andersoni		• • • • • • • •	. 			d	
92, Reed's Camp	. 0.06	0.25	1864	0.00	(*)	0.00 '	0.00		0.00		0.57	2.17	1881	0.00	'80 '83
93. Redding	. 0. 05	0. 63	1876	0.00	(2)	0.06	0.65	1876	0.00	(*)	0.37	1.32	1878	0.00	(!)
94. Fort Reading	. (T)	0.01	1854	0.00	(*)	0.06	0.24	1853	0.00	(*)	0.16	0, 60	1855	0.00	'52 `54
95, Red Bluff		0.08	1879	0.00	(*)	0.05	0.87	1870	0.00	(*)	0.41	2.50	1885	0.00	(4)
96, Tehama		0.75	1876	0.00	(*)	0.06	0. 70	1878	0.00	(*)	0.18	1.10	1872	0.00	(*)
97. Corning		۱							 .		0.23	. .	 .		
98. Indian Valley					. <i>.</i> .	0.00								
99. Meadow Valley	2.40					1.13					1.53				
00. Mumford Hill	0.14	0. 52	1877	0.00	(*)	0.32	0.90	1880	0.00	()	0.69	2.10	1878	0.00	(2)
01. Camp Wright		0.10	1873	0.00	i)	0.02	0.20	1872	0.00	i i i	0.40	1.56	1867	0.00	<u>ن</u>
02. Lavtonville		1.84		0.00		0.00	0.00		0.00		0.34	0.63		0.04	
03. Westport	0.05					(T)					0.88		 . .		
04. Mendocino		0.50	1873	0.00	(*)	0. 05	0.82	1885	0.00	(2)	0.45	2.40	1878	0.00	(1)
05. Cahto											0.20				.
06. Ukiah		0.00		0.00		0.01	0.12	1879	0.00	(*)	0.48	1.15	1883	0.00	'77 '80
07. Point Arenas.		0.16		0.00	(*)	0. 01	0.08	1876	0.00	- čí	0.32	0.85	1878	0.00	÷ С)
08. Orland						(T)					0.19				
						· · · ·									

N	,	Octol	er.			No	vemb	er.		}	De	ecemb	er.				Year.		
Name and number of station.	Aver- age.	Maximu	n. Mini	mum.	Aver- age.	Mari	mum.	Mini	mam.	Aver- age.	Maxi	imum.	Mini	mum.	Mean.	Maxi	mum.	Mini	imum
	Ins.	Ins. Tre	Ine.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Frs.	Ins.	Ins.	Yrs.	Ine.	Yrs.	Ins.	Ins.	Yra.	Ins.	Yrs.
70, Camp Lincoln	1.82	2.30 186			9.48				1868	15.58	16.72	1967	14.06	1866	73.23				
71. Crescent City		20. 19 188			11.37					18.90	27.01		9.65		88.77	113.45	81-82*	69.72	83-84
72. Fort Ter Waw		7.25 186			12.71					11.52		1860	7.44		69.59				
73. Yreka		3. 34 187				5. 29		0, 10				1879	0.00		15.21	22.48	75-76*	10.53	74-78
74. Scott Valley		4.45 187				11.56		0.12			12.75	1864	0.01	1876	24, 11	40.96	61-62	13.05	74-7
75. Fort Jones	1.39	4.18 185		1856			'53 '57					1856	1.13		21.60				
6. Berryvale		4.44 188		1881			1881			5.09		1881			28.84				
77. Almaden								1		0.80					14.29	1			
78. Fort Bidwell		3.55 188		1869			1885	(T)	1884		9.10	1870	0.13	1874	20. 77	37.20	66-674	12.24	78-74
79. Little Hot Spr'gs					4.45					2.14					27.13				
80, Fort Gaston			8 0.00	1868	7 69	24 75	1865	0 60	1862	10 70	28.65	1864	0.00	1876	55.42	125.36			
81. Blue Lake															76.46	120,00	00-00		14-11
82. Arcata	3. 19		•••• ••	•••••	1 77					9.03	1	• • • • •		• • • • • •	37. 69			• • • • • • •	• • • • •
83, Fort Humboldt	1 78	4.53 186	0 0 02	1864	4 13			0.00	161 162	7 50	11 81	1984	1 10	1854	35 01	47 43	65-66	93 11	84.8
84, Humboldt Light-		1.00 100	0.02	1001	4.10	, 10. 00	1000	1 0.00	01 02	1.00	111.01	1001	1. 10	1001			00-00	20.11	
House		4.37 188	1 0.48	1875	4 04	13.56		0.95	1990	5.84	0 49	1	2 00	1975	33. 02	49 76	75-76	· 20 82	•
85. Hydeaville		3.06 188			5.68					0.00	12 01		5 14		37.15	55.70		26.81	
86, Cape Mendocino		3.04 188			2.52			0.40		2.76	3 40	1886			19.60				
87. Orleans		3.64		10.7)				21.13			
88. Weaverville		8. 36 18				16, 56					14.14		0.29		42.45	65 99	77-78	94 79	74 7
89. Fort Crook		3.67 185			2.81		1865					5 1866	1.00		23. 32		61-62		
90, Delta					6. 70								3.94		53.00		85-86		
91. Andersont			2 0.00	1001	0.70	-48. 00	1004	0. 30	1000	9. 21	10.14	1004	0.04	100-	. 33.00	10.24	00-00	00.00	09-0
92, Reed's Camp			• • • • •	1880		0 14	1000	1	1000	12.06	20 01	1000	3.94	1000	69.95	03 44	80-81	55 97	0.0
93, Redding				74 87					74 '84		118. 39				34.25		77-78		
94. Fort Reading	1.08	2.26 187			3.02				1854		11. 18				29.03		52-53		
95. Red Bluff						17. 22									23.99		77-78		
96, Tehama										3. 76							77-78		
		2.72 18	2 0.00	(1)	1.91	10.42	100	0.00	(1)	2.12					13.92				
97, Corning 98, Indian ⊽alley		••••••••	•••••	• • • • • •	1.25		• • • • • •		• • • • • •	2.06					15.17		· · • • • •		
									•••						57.04				
9, Meadow Valley .					12.10			J <u>.</u> .		11. 52									
00, Mumford Hill		4.01 187	9 0.00	1880	4,10	7.20	1879	0.76	1880	11.12	24. 34	1880	2.10	1877			78-79		
1, Camp Wright		5. 61 187	4 0.00	06,20	6.53	16. 67	1865	1.28	1870	11.41	29.04	1867	1.19	1810	43.15		67-68		
2, Laytonville		1.07	1.06		7.10	18. 91		0. 71		10.16	20. 0 8	3 . 	2.95	• • • •	37.61	, 40, 50	• • • • • •	34.98	\$
3, Westport			••••••	• • • • • • • •	10.37	1	• •	· · · · · ·		7.44	1		· · · · · ·		37.84				• • • • •
4, Mendocino		9.17 187	60.03	1871				0.40							49. 28	80.97	77-78	- ₂ 29. 19	82-8
05, Cahto				•••••	4.95		••••	1 : .		12.55			· · · · · · · ·					::::::	••••
6, Ukiah		3.70 187							1878		12.94		0.68	1878	32.92		3 77-78		
7, Point Arenas		4.91 187													30. 53		77-78		
8, Orland	0.64		• • • • • • • •	. .	2.05	1		. 		3. 30					15.07				

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

	1		Januar	y.			1	Februar	у.				March	· ·	•
Name and number of station.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Max	mum.	Minin	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Y78.	Ins.	Ins.	Yrs.	Ins.	Yrs
109, Willows		5.42	1884	0.17	1887	1.37	3.11	1884	0.23	1883	1.30	4.80	1884	0.05	188
110, Princeton		10.43	1878	0.65	1883	2.22	7.64	1878	0.15	1875	1.67	5.08	1884	0.21	••••
111, Little Stony						1.04					0.55				••••
112, Colusa		13.07	1878	0.87	1873	2.82	11.38	1878	0.60	1875	1.86	5.70	1884	0.85	
113, Fouts Springs			•••••••••			4.04	· · · · · · · ·		'• :• ::•		2.93			201200	
114, Williams	. 2.55	4.02	1881	0.35	1887	1.75	6.75	1878	0.00	1856	1.34	3.93	1884	0.15	188:
115, College City	. 2.30	3. 61	· • • • •	1.64	••••	0.91	2. 21	· · • •	0.04	•···	3.01	5.46	´ • • • • • •	0.56	• • • •
116, Cantelope Valley			•••••	•••••	•••••	2.71		•••••		•••••	3.07		••••••		•••••
117 Near Paradise City		12.04	1878	0.67	1883	3.53	10. 01	1878	0.27	1883	3.54 2.28		1884		
118, Chico 119, Cherokee		19.63	1878	1.42	1883		20.00	1878	0.38	1875	7.95	5.57 18.23	1879	0.30 0.59	1883 1873
120. Oroville		7.15	1010	2.01	1000	3. 11	4.64	1010	0.36	1015	1. 25	2.70	1918	0.09	
121, Cherokee Reservoir		23. 54	1878	8.89	1879		21.00	1878	0. 61	1875		21.06	i879	3.76	187
122. Downievillet	. 10.00	20. UT	1010	0.00	1010	0.00	21.00	1010	0.91	1010	11.00	21.00	10/0	0.10	10/1
123. Smartville	7.11	11.43	1875	2.67	1873	5.70	13. 50	1872	0.24	1875	4.48	9.68	1879	1.53	1873
124, Marysville		9.47	1878	0.73	1887	2.46	6.09	1887	0.07	1885	1.84	4.06	1876	0.12	188
125, North Bloomfield		19. 46	1881	0.15	1875	7. 81	18. 22	1872	0.88	1875	7.58	16.62	1879	0.70	100.
126. Bowman's Dam	14 00	27.82	1881	4.49			27.08	1872	0.25	1875		20. 97	1878	0.80	
127, Union Ranchet					•••••			1010	0.20	1010	10. 11	20. 01	1010	0.00	• •
128, Boca	4.26	9.00	1876	1.00	1885	3.43	12.70	1887	0.00	1877	2.68	11.33	1882	0.00	18
129. Truckee		10.94	1876	1. 66	1883	5.84	13. 05	1873	0.22	1875		13. 40	1882	0.36	188
130, Nevada City		18.88	1881	0.90	1864		16. 67	1872	0.50	1864	8 57	23, 30	1868	0.53	
13), Grass Valley		19.20	1881	3.05	1883	7. 10	17.76	1878	1.39	1875	7.57	18.07	1879	1.39	1873
132. Middletown		17.85	1881	2.25	1883	3.44	6.80	1882	0.32		4.79	12 82	1884	0.70	
133, Kono Tayee		14.16	1878	1.03		3.34	11.04	1878	0.38	1875	3.68	9.15	1879	0.00	
134, West Butte	2.50	4.75		0.62	1880	1.13	2. 31	1882	0.19	1853	2.18	6.50	1884	0.37	
135, Nicolaus	. 3. 52	8. 62		1.37		2.88	6.81				2.60	6, 12			
136 Summit	8.39	17.89	1877	1.11	1883	8.96	20.70	1887	0.00	1874	6.78	23. 37	1879	0.00	188
137, Emigrant Gap	10, 18	26.07	1881	0.00	1872	9.50	21.08	1873	0 22	1875	8.77	24.57	1874	0.40	188
138, Ciaco	10.83	30. 94	1881	1.00	1883	10.74	28.00	1873	0.83	1877	8.79	28.08	1882	0.52	187
139, Alta	8.56	21,00	1881	1.50	1885	7.26	15.01	1878	0.01	1875	6.92	24.35	1879	0.10	188
140, Colfax	8.36	15.59	1881	1.68	1883	6.77	13.68	1872	0.19	1875	6,28	14.64	1876	0.68	188
141, Lower Soda Springs	0,97					· • • • • •					' .,				
142, Auburn	. 6, 13	10. 61	1878	1.74	1885	5.2 3	12.38	1887	0.00	1886	4. 49	10.17	1884	0.53	1873
143, Rocklin		8.90	1874	0.75	1887		7.76	1878	0.05	1875	2, 56	5.77	1884	0.00	188
144, Dunnigan		10. 50	1878	0.70	1880		6.93	1887	(T)	1886	2.08	5. 78	1884	0.13	188
145, Knight's Landing		5. 53	1886	0.00	1878	2.57	6.60	1887	0.00	'85 '86	1.88	4.09	1884	0.00	188
46, Woodland		8.17	1878	0.80	1887	2.48	8.86	1878	0.00	1886	2.07	4.74	1879	0.10	188
147. Davisville	3.23	8.72	1878	0.99	1887	2.23	6.49	1878	0.00	1875	1.83	5.09	1884	0.06	1873

			April	•				May.					June.		
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	imum.	Min	imam.	Aver- age.	Maxi	mum.	Minir	num.
	Ins.	Ins.	Trs.	Ins.	Yrs.	Ine.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	<u><u> </u></u>
109. Willows	1.89	3.83	1880	0.63	1882	0.39	1.64	1883	0.00	()	0.12	0,90	1884	0.00	(²)
10. Princeton	1.53	4.93	1880	0.00	1877	0. 55	2.82	1883	0.05	1884	0.45	2,12	1884	0.00	- Ò
11, Little Stony			. .			0.00				. 	0.58				
12, Colusa	1.54	6.31	1880	0.00	1877	0.45	3. 23	1883	0.00	(1)	0.37	2.88	1884	0.00	(*)
13, Fouts Springs	4.68	· .				0, 25				• • • • · · · •	(T)		• • • • • • • • •		
14. Williams	1.51	. 3. 67	1880	0.05	1877	0.39	1.75	1883	0.00	(4)	0.46	2.96	1884	0.00	(ł)
15, College City	. 1.62	2.48		0.76		v. 08	0.17		0.00		1.12	2.04		0.23	
16, Cantelope Valley	2.19			· • • • • •		0. 82		• • • • • • • •		 .	0, 24	. 	• • · • • • • •		.
17. Near Paradise Cityt		·				1	· · · · · ·				 				
18, Chico	1.73	5, 78	1880	0. 00	(¹)	0.71	5.01	1883	0.00	(1)	0.34	2.11	1884	0.00	(¹)
19. Cherokee	. 3. 37	9.27	1884	0.75	1877	1.47	3.66	1879	0,00	'80 '82	0.60	3.87	1884	0.00	(¹)
120. Oroville	. 2.42	5. 48		0,00		0.29	0.65	• • • • •			0.10	0. 39			
21. Cherokee Reservoir	. 3.78	7.68	1879	0.10	1875	2.06	5.06	1879	1.00	1876	0.72	2.00	1875	0.00	(!)
22, Downievillet										• • • • • • • • • •			•• • • • •		
123. Smartville	. 3.16	12.32	1880	0.00	1871	0 88	2.98	1880	0.00	1871	0.44	2, 81	1875	' 0.00	(2)
24. Marysville	. 1.63	7.73	1880	0,00	1875	0.59	3. 50	1883	0,00	(י)	0.25	1.97	1875	0.00	(*)
25. North Bloomfield	5.73	23, 31	1880	· 0. 30	1875	2.04	5.63	1880	0.00	1883	0.64	4.03	1884	0.00	(¹)
26, Bowman's Dam		31.72	1880	0.83	1875	2. 59	8.90	1880	0.00	1883	0.83	8.53	1884	0.00	(i)
27. Union Ranche	3.08					3.00					0.04		 .		
28 Boca	1.51	7.63	1880	0.00	1887	0.40	1.86	1883	0.00	(1)	0.13	1.40	1884	0,00	(²)
29. Truckee		14.11	1880	0, 52	1881	1.05	3. 5 9	1873	0.08	1884	0.39	1.81	1875	0.00	(i)
30, Nevada City	5, 14	22.54	1880	0.27	1875	2.06	6.92		0.00	1881	9. 60	2.47	. .	0.00	- (ť)
31, Grass Valley	5. 61	10.98	1884	0, 29	1875	1.90	6.23	1880	0.05	1881	0.62	2.30	1884	0.00	- èś
32, Middletown	6. 97	22. 21	1580	1.32		1.23	3.97	1883	1		0.51	3.28	1884	0,00	(ľ)
33, Kono Tayee		3. 88	1884	0.00	1874	0.52	2.41	1883	0.00	'76 '77	0.29	4.08	1884	0.00	(I)
34. West Butto		5.88	1880	0, 88	1883	0.85	3.56	1883	0.00	1881	0.32	1.75	1884	0.00	(*)
135. Nicolaus		11.13		0.00		0.60	2.81				0.13	0.68			
36. Summit		33. 71	1880	0.31	1877	1.68	4.03	1877	0.05	1881	0.62	4.04	1884	0.00	(*)
137, Emigrant Gap		23. 88	1880	0,55	1874	2.47	6.25	1+80	0,20	1885	0.74	2.77	1884	0.00	- èś
138, Cisco		21.09	1880	0.75	1886	2.36	7.57	18×3	0, 09	'81 '84	0, 79	3.54	1884	0.00	(*)
139. Alta	3.67	12.04	1880	0.44	1875	1.38	6.07	1883	0.00	(1)	0.51	8.00	1884	0.00	(2)
40. Colfax		21.09	1860	0.22	1875	1.63	5.92	1883	0.00	'81 '×5	0.52	8.01	1884	0.00	- èý
141, Lower Soda Springst														1	
142, Auburn		13.02	1880	0.11	1875	1.18	4.07	1883	0.00	'81 '85	0.36	1.82	1875	0.00	(*)
143. Rocklin		7.53	18+0	0.00	1875	0,65	3,97	1883	0.00	(1)	0.22	1.25	1875	0.00	(*)
144. Dunnigan		6.06	1880	0.00	1877	0.63	4. 67	1683	0.00	- èś	0.28	2, 59	1884	0.00	(*)
145, Knight's Landing		6 64	1880	0.87	1883	0.64	3. 32	1883	0.00	ĕ	0.21	0.92	1854	0.00	Ċ)
146, Woodland			1850	0.00	1875	0.54	4.12	1883	0,00	- ČŚ	0.15	1.59	1875	0.00	Ċ)
147, Davisville			1880	0.00	'72'75	0.38	3, 19	1883	0.00	- 6	0, 15	1.39	1584	0.00	(*) (*)
111, 1/01/01/01/01/01/01/01/01/01/01/01/01/01										• •				1	
t No data		Frequ					*) Gene				·		e of ra		

† No data.

(1) Frequently.

(²) Generally.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			July.					Augus	t.			S	eptem b	er.	
Name and number of station.	Aver- age.	Maxi	imum.	Mini	mum.	A ver-	Max	im am .	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs
09, Willows	. (T)	0. 02	1879	0.00	(*)	0.01	0.05	1879	0.00	(²)	0,13	0.41	1883	0.00	(2)
10, Princeton	. 0.09	0,90	1876	0.00	(*)	0. 08	1.02		0.00	(*)	0.08	1.13		0.00	(⁴)
11, Little Stony				· • • • •		0.00		. 			0.00				
12, Colusa	. 0.01	0.54	1876	0.00	(²)	0.02	0.33	1878	0.00	(')	0.19	1.19	1881	0.00	(*
3, Fouts Springs			• • • • • • •			0.00			l .		0.00		 . .		
4, Williams		0,00		0.00		0.01	0.06	1879	0,00	(°)	0.13	0.50	1883	0.00	(1
5. College City	. 0.00	0.CO		0.00		(T)	(T)		0.00		0.37	0.71	• • • • •	0.05	
6, Cantelope Valley	. 0,00			·		0.00					0.25		 .		
7, Near Paradise Cityt									·						
8. Chico		0.50	1876	0.00	(2)	0, 03	0.20	1879	0.00	(²)	0.27	1.15	1881	0.00	(1
9. Cherokee		1.19	1876	0.00	(2)	0 06	0.45	1878	0.00	(2)	0.51	2.60	1879	0.00	(1
0. Oroville	. (T)	(T)		0.00	(*)	(\mathbf{T})	(T)		0.00	(2)	0.57	2.27	• • • • •	0.00	18
1. Cherokee Reservoir		1.00	1876	0.00	(²)	0.23	0.73	1876	0.00	(*)	0, 54	1.98	1878	0 00	(1
2. Downieville			• • • • • • • •	·		0.01		. 			0.07				
3. Smartville	0.05	0.43	1876	0.10	(2)	0.00	0.00		0.00		0.11	1.00	1878	0.00	Č (
4. Marysville	0.01	0.11	1876	0.00	(2)	0 01	0.06	1876	0.00	(*)	0.19	1.15	1883	0.00	è
5. North Bloomfield	0.12	1.76	1876	0.00	(²)	0 02	0.24	1879	0.00	(²)	0.60	2.74	1882	0.00) (
6. Bowman's Dam		1.28	1876	0.00	(²)	0 02	0.13	1878	0.00	(2)	0.71	2.94	1882	0.00	è
7. Union Ranch	0.40					0.00					0 05				
8. Boca.	. 0.24	2.00	1871	0.00	(*)	(1)	0.01	1876	0 00	(2)	0.02	0.18	1878	0.00	(
9. Fruckee		0.89	1885	0.00	(ª)	0 02	0.28	1878	0 00	- ĕ	0.07	0.47	1885	0 00	è
0. Nevada City		0.71	1877	0.00	- čí	0.03	0.75	1864	0.00	- èś	0 54	1.91	1867	0.00	è
1. Grass Valley		0.65	1876	0.00	- ĕ	0 01	0.08	1879	0 00	- 66	0.69	1.88	1882	0.00	è
2. Middletown		0.00		0.00	()	0.00	0.00	1010	0.00		0.49	2.55	1883	0.00	18
3. Kono Tayee		0.00		0.00		0.01	0.07	1878	0.00	(')	0.19	0. 73	1877	0.00	Ĩ
4. West Butte		0.00		0.00	• • •	0.00	0.00		0.00	(7)	0.32	0.62	1883	0.00	18
5. Nicolaus	0.00	0.00		0 00		(1)	(T)		0 00		0. 22	0.75		0.00	
6. Summit	0.08	1.26	1877	0 00	(1)	0.01	ò. 10	1877	0.00	(1)	0.19	0.83	1882	0 00	ë
7, Emigrant Gap		0.30	1876	0.00	- 25	0.01	0.13	1887	0.00	6	0.32	1.70	1881	0.00	- è
8. Cisco		1.80	1877	0.00	- 8	0.00	0.00		0.00	()	0.28	2.16	1881	0.00	6
9. Alta		0.02	1876	0.00	8	0.00	0.00	••••	0.00	• • • • •	0.34	2. 70	18:2	0.00	- 6
0, Colfax		0.02		0.00	• •	0.00	0.00	• • •	0.00	• • • • •	0.34	1.63	1841	0.00	5
	. 0.00	0.00	• • • •		• •	1	0.00	• • • •	0.00	••••	0.32	1.00	10-1	0.00	C.
			1876	0.00	···	0.00	0.21	1876	0.00		0.34	1.70	1883	0.00	••••
2, Auburn		0.41	1876	0.00	(1) (1)	0.01		1876	0.00	(¹) (¹)	0.34	1.10	1883	0.00	<u>(</u>
3, Rocklin		0.25		0 00		0 01	0 20		0.00	• •			1883		Ś
4, Dunnigan	. 0.00	0.00	••••		• • • •	0.00	0 00	1879	0.00		0.15	0.77	1881	0.00	ġ
5, Knight's Landing		0.00	1000	0.00		(T)	0.05	18/18	0.00	(¹)	0.11	0.71			ġ
8, Woodland		0.16	1876	0 00	<u>()</u>	0.00			0.00		0.08	0.59	1882	0.00	ġ
7. Davisville	0.01	0.20	1876	0.00	(1)	(T)	0.02	1876	0.00	(')	0.10	0.72	1883	0.00	(I

	•	Octobe	r.	-	Novembe	ðr.	4	Decembe	e r. .	1	Year.	
Name and number of station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum,
	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Trs.	Ins. Trs.
109. Willows	0.59	1.30 1883	0.00 (1)	1.46	7.28 1885	0.00 1886	2.51	6.33 1880	0.05 1883	11.76	18.84 83-84*	
110. Princeton	0.25	4.60 1876	0.00 1880	1.02	7. 21		2. 60	7.25 1873	0.00 1876	13.52		10. 20 76-7.*
111. Little Stony				13, 29			3.51			24.37		
112. Colusa	1.04	4.72 1876	0.00 (1)	1.82	7.69	0.00 1876	3.17	9.63 1880	0.00 1876	16.99	32.84 77-78*	9.20 76-77*
113. Fouts Springs	0.45			9.81			3.84			31.64		.
114. Williams'	0.43	1.13 1882	0.00 (')	1.15	6.51 1885	0,00(1)	1.99	7.48 1880	0.00 1878	11.71	21.64 77-78*	3.94 76-77
115, College City	0.80	0.92	0.56	3.07	8,79	0.41	2.30	5. 14	0.51	15.58		
116, Cantelope Valley.	0.54			3.02			4.92			22.92		
117, N'rParadiseCityf					· • • • • • • · · · · •						. . 	
118, Chico	1.02	4.03 1876	0.00 (1)		8.99 1885	0.01884		10.11 1871	0.00 1876	20.06	34.72 77-78*	
119, Cherokee	2.95	10.19 1876	0.00 1880		14.28 1874	0.39 1881		16.84 1850	0.69 1878	44.93	63.26 77-78*	
120, Oroville	0.80	2.08	0,00		11.27	0.05		10.60 1880	4.69 1881	24.83		18.46 81-82*
121, Cherokee Reser'r		12.90 1876	0.00 1873		16.99 1874	0.00 1876		18.25 1873	0.00 1878	60.27	78.78 77-78*	42. 34 76-77*
122, Downieville	4.19			11.33	1.2.2.2.2.		6. 7h					
123, Smartville		5. 41 1876	0.00 (1)	3. 74	9.90 1874	0.00 1871	5.01	19.02 1873	0,00 (1)	32 18	46. 78 73-74	
124, Marysville		2.40 1882	0.00 (1)	1.74	8.23 1885	0.00 1884		12.45 1873	0.00 1876	16.22	26.86 73-7+*	
125, North Bloomfield			0.00 1880		20, 23	0.00		27.21	0.00 1876	52.48	74.52 71-72*	
126, Bowman's Dam	3 65	11.47 1882	0.00 1880		24.96	0.53 1876	14 00	46.57	0 00 1876	73.56	102.22 71-72*	44.37 76-77
127 Union Ranch				7.21			2.63	1				
128, Boca		2.60 1883	0.00 (²)	0.91	3.83 1874	0,00 (1)	2.72	8, 20, 18-4	0.00 1878		23.40 83-81	
129, Truckee.		4.66 1879	0.00 (1)	2.11	6.95 1885	0.00 1884		16.90 18.1	0.00 1876	2×.09	47.21 71-72	
130, Nevada City	1.82	9.85 1876	$\begin{array}{c} 0.00 & (^{1}) \\ 0.00 & 1872 \end{array}$	6.77	21.55 16.99 1875	0,00	12.09	41.95 1867	0.00 1876		115.26 67-68	
131, Grass Valley	2.81	8.72 1876 2.93 1882				0.00 1872		22.69 1886	0.00 1×76	50.62	65. 32 75-76*	
132. Middletown 133. Kono Tayee	1.43	3.70 1874	0.06 1880	4 94	19.42		10.41 2.53	22.93	1.47 1882	41.99	52.04 31.96 75-76*	10.02 70 77
		1. 12 1881	0.00 1873	+4.21 +1.83		0.00 1873			0.00 1876	21.81	19 80 83-84*	
134, West Butte 135, Nicolaus			0.00 1850	1.83 1.98			2.67	5, 38, 1880	0.19 1883	$15.10 \\ 19.23$		8.93
136. Summit		2.56	0.00 (1)	2.82	9.34 9.33 1871	0.00 0.00 (¹)		28, 88, 1871	0.31		87.99 79-≻0*	
137, Emigrant Gap		8.01 1882	0.00 (1)		18. 69 18-5	0.00 (1)		31. 20 1884	0.00 1870		83.17 79-80*	
138, Cisco	2.45	8.43 1882	0.00 1885		17.05 1885	0.00 1884		28. 39 1871	0 22 1876	55.10	80.46 80-81*	
139. Alta		7.65 1882	0.00 (4)	4.81	18.74 1875	0.00 1854		16.41 1873	0 00 1872	42.14	69.70 78-79	
140. Colfax.	1.74	7. 98 1876	0.00 (1)		15.48 1885	0.00 1850		23. 60 1884	0.00 1876	43.33	60.06 75-76*	
141, Lo'r Soda Sp'gs f		1.00 1010	0.00 (1)	0.00	10. 10 1000	0.00 1000	1.07	-0.00 1004	0.00 10/0	70.00	00.00 10-10	21.01 10-11
142. Auburn	1.42	5. 19 1882	0.00 (1)	3 49	15.24 1885	0.00 1884	5 94	16.27 1884	0.00 1876	32.37	44.87 75-76	17.50 70-71
143. Rocklin		3. 39 1882	0.00 (1)	1.74		0.00 1880	. 3. 59	8.81 1871	0.00 1876	18.71		10.26 76-77
144. Dunnigan	0.61	1.45 1885	0.00 (1)		10. 47 18-5	0.00 1884		10.23 1-80	0.00 1876	15.74	29.50 85-86*	
145, Knight's Land'g.		1.51 1882	0.00 (1)	1.48	8.00 1885	0.00 (1)	2.50	6.90 1850	0.00 1877	14.36	24.08 85-86*	
146, Woodland	0.54	3.26 1874	0.00 (1)	1. 17	3,87 1875	0.00 (1)		10.44 1873	0.00 1876	15.22	25. 32 77-78*	
147. Davisville.	0.62	3. 03 1876	0.00 (1)	1.52	7.87 1885	0.00 (1)		11.55 1871	0.00 1876	15.42	24.50 85-86*	
•							1					1
*Seasonal rain-fa	ll Sept	tember to A	ugust, ipclu	isive.	t No da	ta. (1) H	reque	ntly. (2)	Generally.	(T) Trace of 1	ain-fall.

S. Ex. 91-7

		Januar	y.		Fe	bruar	y.				March.		
Name and number of station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maxim	num.	Minin	oum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.		Yrs.	Ins.	Yrs.	Ins.	Ins.	Y78.	Ins.	Yrs.
48, Georgetown		20. 83 1881 15. 53 1881	4.08 1873	8.00	22.78	1878	0.04	1875	9.23	19.94	1884	0.24	1077
49, Placerville		15.53 1881 34.13 1862	3.74 1883 1.22 1859	4.28	11.56 12.00	1884 1859	0. 08 0. 40	1875 1851	6 34 5.14	14.46 14.39	1884 1868	0.00 0.63	1877 1864
51, Healdsburgh	5.52	9.17 1872	1.87 1883	9.31	13. 45	1872	5. 17	1873	2.28	6.84	1878	0.00	'72 '7
52, Santa Rosa	6.32			3.05		• • • • • •		•••••	3.95			.	• • • • • • •
53, Sonoma 54, Templeville	4.89 0.61	•••••	••••••••••	6.02 7.21		•••••	•••••	•••••	1.15 0.47		•••••	· · · · · · ·	•••••
55, Stony Point †	0.01			1.61				•••••	0.41			•••••	
56. Petaluma	4.75	15.62 1878	0.13	3,82	11.99	1878	0.00	1886	2.51	7,48	1879	0.00	187
57, Calistoga		20.64 1878	0.20 1873	5.20	16.46	1878	(T)	1886	4.29	15.70	1879	0.71	188
58, Napa City 59, Knoxville	5.36 4.06	14.18 1878	1.87 1887	3.82	10.68	1887	0.00	1886	2.89 11.72	8.36	1879	0.43	188
60, Folsom	4.48	8.41 1878	1.51 1880	3.28	8.37	1878	0.04	1875	3.14	8.14	1884	0.15	••••••
81 Sauramento	3.77	15.04 1862	0.58 1852	2.89	8.50	1854	0.12	1852	2.86	10.00	1850	0.08	188
32, Camp Far West	6.92			1.26					12.70				
63, Brighton 64, Galt	2.83 2.76	8.38 1878 6.04 1886	0.80 1887	3.16	6.49 5.55	1878 1878	0.07 0.00	1886 1886	2.52 2.37	5.32 5.46	1884 1884	0.00 0.00	188 188
35, Ione	2.88	5.28 1878	0.83 1887	3. 28	7.26	1887	0.00	1885	3.06	7.87	1884	0.00	188
36, Sutter Creek	6.56			4.91					4.90				
37. Jackson	5.18	8.86 1881	1.89	4. 69	13. 24		0.27		4.88	9.41	1884	0.26	
68, Winters	5.95	9 01 1000	1 01 100-	0.14	7 10	10		1000	1.77	1 9#	1000	0 55	188
39, Elmira 70, Vacaville	4.51 5.02	8.01 1886 15.61 1881	1.01 1887 1.34 1887	3. 55	7. 10 9. 40	1887 1887	0.00 0.17	1886 1886	0.95 3.34	1.35 11.45	1886 1884	0.55 0.28	188
71, Denverton	4.33		1001	2.29					2.53		1007		
72, Suisun and Fairfield	4.20	10.91 1878	0.64 1873	2. 78	8.66	1878	(T)	1886	2.32	7.70	1879	0.20	187
73, Rio Vista	3.08			1.54					2.78				
74, South Vallejo	3.04 2.68	7.64 1878	0.75 1873	2.23 1.78	7.72	1887	0.00	'75 '86	2.42 3.19	6.06	1884	0.24	188
75, Bird's Landing 76, Benicia Barracks		10.97 1862	0.00 1871	2.27	7.37	1878	0.00	'52 '75	2.38	7.93	1884	0.44	187
77, Point Reyes	4.29	8.55 1881	0.00 1883	3.24	6. 24	1878	0.00	1883	3.94	5.60	1884	0.55	187
78, San Rafael	8.69	25.85 1878	1.66 1883	4.96	18. 57	1874	0.00	1875	5.45	11.76	1884	0.64	188
79, Ross Valley	7.81	12.32	. 3.56	2.91	7.43	• • • • •	0.28	•••	6.44	11.12	• • • •	1.76	•••
30, Saucelito	3.91 4.61	7.85 9.39 1881	1. 72	2.18	5.57 9.12	1878	0.09 0.00	1875	3.50 2.81	8.19 7.82	1884	0.88 0.60	187
81, Angel Island 82, Point Bonita	5.04	9.34 1878	2.29 1882	3.83	14.10	1878	0.00	1010	3.89	8.55	1884	0.79	187
83, Mare Island	5.08			4.03					2.50				
54, AICAURAZ ISLADO	3.90	14.40 1862	0.52 1885	2.86	8.64	1878	0.00	1864	1.95	6.02	1884	0.32	186
85, Fort Point		04 00 1000	A E0 10E0	2.95	19 59	1070		1084	1.90	0 75	1970		100
86, San Francisco	5.06	24.36 1862	0.58 1852	3.78	12. 52	1878	0.00	1864	3.07	8.75	1879	0.74	186
		April	,	1		May.					June.		
Name and number of station.	Aver-	Maximum.	Minimum.	Aver age.	Maxin	aum.	Minin	nam.	Aver- age.	Maxi	mum.	Mini	mum.
		Terro Trees									-		
48, Georgetown	Ins. 7.25	Ins. Yrs. 25.63 1880	Ins. Yrs. 0.31 1875	Ins. 2.30	Ins. 7.34	Yrs. 1883	Ins. 0. 12	Yrs. 1873	Ins. 0.82	Ins. 3.65	Frs . 1884	Ins. 0.00	Yrs. (¹)
		17 00 1000											- 6
9. Placerville	6.18	17.92 1880	² 0. 61 1875	1.77	6. 25	1883		'77 '81	0.75	2.51	1884	0.00	
19. Placerville	6.18 3.19	7.34 1862	0.00 1857	1.13	6.25 4.88	1866	0.00 0.01	'77 '81 1867	0.19	1.90	1862	0.00	
49. Placerville	6. 18 3. 19 0. 95		0.00 1857		6.25		0.00 0.01	'77 '81					
49, Placerville	8.19 0.95 1.01	7.34 1862	0.00 1857	1.13 0.39	6.25 4.88	1866	0.00 0.01	'77 '81 1867	0.19 0.08	1.90	1862	0.00	
49, Placerville	6. 18 3. 19 0. 95 1. 01 3. 54 1. 51	7.34 1862	0.00 1857 0.00 '72'73	1.13	6.25 4.88	1866 1878	0.00 0.01	'77 '81 1867	0.19	1.90	1862	0.00 0.00	73`'7
49, Placerville 50, Shingle Springs	8.19 0.95 1.01 3.54 1.51	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73	1.13 0.39 0.29 0.06	6. 25 4. 88 1. 18	1866 1878	0.00 0.01 0.00	'77 '81 1867 '72 '73	0.19 0.08 0.00 0.35	1.90 0.25	1862 1872	0.00	'73 [`] '7
49, Placerville 50, Shingle Springs. 51, Healdeburgh. 52, Santa Rosa. 53, Sonoma. 44, Templeville. 55, Stony Pointt. 55, Stony Pointt. 56, Patalman.	8.19 0.95 1.01 3.54 1.51	7. 34 1862 2. 84 1878 9. 74	0.00 1857 0.00 '72 '73 	1. 13 0. 39 0. 29 0. 06 0. 53	6. 25 4. 88 1. 18 2. 99	1866 1878	0.00 0.01 0.00	'77 '81 1867 '72 '73	0.19 0.08 0.00 0.35 0.27	1.90 0.25 2.80	1862 1872	0.00 0.00	173`'7
49, Placerville 50, Shingle Springs. 51, Healdeburgh. 52, Santa Rosa. 53, Sonoma. 44, Templeville. 55, Stony Pointt. 55, Stony Pointt. 56, Patalman.	8.19 0.95 1.01 3.54 1.51	7. 34 1862 2. 84 1878 9. 74 15. 31 1880	0.00 1857 0.00 '72'73 0.00 '73'75 0.00 1875	1. 13 0. 39 0. 29 0. 06 0. 53 0. 79	6. 25 4. 88 1. 18 2. 99 3. 71	1866 1878 1883 1883	0.00 0.01 0.00	'77 '81 1867 '72 '73 	0.19 0.08 0.00 0.35 0.27 0.31	1.90 0.25 2.80 2.06	1862 1872 1884 1884	0.00 0.00	173`'7
49, Placerville 50, Shingle Springs. 51, Healdeburgh. 53, Sonoma. 53, Sonoma. 54, Templeville. 55, Stony Pointi. 55, Stony Pointi.	8.19 0.95 1.01 3.54 1.51	7. 34 1862 2. 84 1878 9. 74	0.00 1857 0.00 '72 '73 	1. 13 0. 39 0. 29 0. 06 0. 53	6. 25 4. 88 1. 18 2. 99	1866 1878	0.00 0.01 0.00	'77 '81 1867 '72 '73	0.19 0.08 0.00 0.35 0.27 0.31 0.27	1.90 0.25 2.80	1862 1872	0.00 0.00	173`'7
49, Placerville 50, Shingle Springs	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91	7. 34 1862 2. 84 1878 	0.00 1857 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1884 0.00 1877	1. 13 0. 39 0. 29 0. 06 0. 53 0. 79 0. 76 0. 16 0. 84	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50 4. 57	1866 1878 1883 1883 1879 1883	0.00 0.01 0.00	'77 '81 1867 '72 '73 (1) (1) (2) '82 '85 1881	0.19 0.08 0.00 0.35 0.27 0.31	1.90 0.25 2.80 2.06 2.12 1.64	1862 1872 1874 1884 1884 1884 1884	0.00 0.00	(*) (*) (*) (*) (*)
49, Placerville	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95	7. 34 1862 2. 84 1878 	0.00 1857 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1874 0.00 1877	1. 13 0. 39 0. 29 0. 06 0. 53 0. 79 0. 76 0. 16 0. 84 0. 69	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50	1866 1878 1883 1883 1879	0. 00 0. 01 0. 00 	'77 '81 1867 '72 '73 (¹) (¹) (¹) (¹) *82 '85	0. 19 0. 08 0. 00 0. 35 0. 27 0. 31 0. 27 0. 00 0. 72 0. 13	1.90 0.25 2.80 2.06 2.12	1862 1872 1874 1884 1884 1884	0.00 0.00 	(1) 173 '7
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Sants Rose 53. Sonoma 54. Templeville 55. Stony Pointi 56. Petalnina 57. Calistoga 58. Napa City 59. Knorville 50. Folgom 51. Sacramento 52. Canne Far West	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46	7.34 1862 2.84 1878 9.74	0.00 1857 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1884 0.00 1877 (T) 1875	1.13 0.39 0.29 0.06 0.53 0.79 0.76 0.76 0.76 0.84 0.69 0.86	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50 4. 57 2. 85	1866 1878 1883 1883 1879 1883 1883 1883	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77 '81 1867 '72 '73 (¹) (²) 82 '85 1881 (¹)	0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00	1.90 0.25 2.80 2.06 2.12 1.64 1.45	1862 1872 1874 1884 1884 1884 1884 1884	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*)
49, Placerville 50, Shingle Springs. 51, Healdsburgh 52, Santa Rosa. 53, Sonoma 54, Templeville 55, Stony Pointi 56, Petalnum 57, Calistoga. 58, Napa City. 59, Knoxville 60, Folsom. 61, Saoramento 62, Camp Far West.	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46	7.34 1862 2.84 1878 9.74 15.31 1880 11.87 1880 14.20 1880 12.29 1880	0.00 1857 0.00 '72 '73 0.00 '73 '75 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881	1.13 0.39 0.29 0.06 0.53 0.79 0.76 0.16 0.84 0.69 0.88 0.52	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50 4. 57 2. 85 2. 99	1866 1878 1883 1883 1879 1883 1883 1883	0.00 0.01 0.00 	'77 '81 1867 '72 '73 (¹) (²) 82 '85 1881 (¹)	0.19 0.08 0.27 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00 0.20	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55	1862 1872 1874 1884 1884 1884 1884 1884 1884	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Sants Rose 53. Sonoma 54. Templeville 55. Stony Pointi 56. Petalnina 57. Calistoga 58. Napa City 59. Knorville 50. Folgom 51. Sacramento 52. Canne Far West	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46	7. 34 1862 2. 84 1878 9. 74 15. 31 1880 11. 87 1880 11. 89 1880 14. 20 1880 12. 29 1880 7. 31 1880	0.00 1857 0.00 '72 '73 	1.13 0.39 0.29 0.06 0.53 0.79 0.76 0.76 0.76 0.84 0.69 0.86	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50 4. 57 2. 85 2. 99 4. 83	1866 1878 1883 1883 1879 1883 1883 1883	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	¹ 77 '81 1867 '72 '73 (1) (1) '82 '85 1881 (1) (1) (1) (1) (1) (1) (1) (1	0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Potaluma 57. Callstoga 58. Napa City 59. Knoxville 60. Folsom 61. Sacramento 62. Camp Far West. 63. Brighton 64. Galt. 65. Jone 66. Sutter Creek	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46 2. 89 2. 81 8. 89 4. 78	7.34 1862 2.84 1878 	0.00 1857 0.00 '72 '73 	1.13 0.39 0.29 0.53 0.79 0.76 0.84 0.84 0.69 0.86 0.52 0.74 0.81 1.33	6, 25 4, 88 1, 18 2, 99 3, 71 1, 50 4, 57 2, 85 2, 99 4, 83 3, 04	1866 1878 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	^{177 '81} 1867 '72 '73 (¹⁾ (0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00 0.20 0.13 0.30 0.44	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Sants Ross 53. Sonoma 54. Templeville 55. Stony Pointi 56. Petaluma 57. Callatoga 58. Napa City 59. Knorville 50. Folsom 51. Sacramento 52. Camp Far West 53. Brighton 64. Galt 55. Stony Creek 67. Jacksen	3. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46 2. 89 2. 31 8. 39 2. 31 8. 378 4. 78 5. 17	7. 34 1862 2. 84 1878 9. 74 15. 31 1880 11. 87 1880 11. 89 1880 14. 20 1880 12. 29 1880 7. 31 1880	0.00 1857 0.00 '72 '73 	1.13 0.39 0.29 0.06 0.53 0.76 0.16 0.84 0.69 0.86 0.52 0.74 0.81 1.24	6. 25 4. 88 1. 18 2. 99 3. 71 1. 50 4. 57 2. 85 2. 99 4. 83	1866 1878 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	¹ 77 '81 1867 '72 '73 (1) (1) '82 '85 1881 (1) (1) (1) (1) (1) (1) (1) (1	0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.31 0.27 0.00 0.72 0.13 0.00 0.20 0.18 0.30 0.44 0.32	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City 59. Knorville 60. Folsom 51. Sacramento 52. Camp Far West 53. Brighton 64. Galt 65. Jone 66. Sutter Creek 67. Jackson	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46 2. 89 2. 31 8. 39 4. 78 5. 17 3. 90	7.34 1862 2.84 1873 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34	1.13 0.39 0.29 0.06 0.53 0.79 0.76 0.84 0.69 0.86 0.86 0.86 0.86 0.84 0.81 1.33 1.24 0.16	6, 25 4, 88 1, 18 2, 99 3, 71 1, 50 2, 99 4, 83 2, 99 4, 85 2, 99 4, 85 4, 65	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	^{177 '81} 1867 '72 '73 (¹) (¹) (¹) '82 '85 1881 (¹) (¹)	0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00 0.20 0.18 0.30 0.42 0.00	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.36 2.03 1.85	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City 59. Knorville 60. Folsom 51. Sacramento 52. Camp Far West 53. Brighton 64. Galt 65. Jone 66. Sutter Creek 67. Jackson	8. 19 0. 95 1. 01 3. 54 1. 51 2. 11 3. 11 2. 48 6. 19 2. 91 1. 95 4. 46 2. 89 2. 31 8. 39 4. 78 5. 17 3. 90	7.34 1862 2.84 1878 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1887 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.06\\ 0.53\\ 0.79\\ 0.76\\ 0.68\\ 0.68\\ 0.84\\ 0.69\\ 0.84\\ 0.68\\ 0.52\\ 0.74\\ 0.81\\ 1.33\\ 1.24\\ 0.61\\ 0.07\\ \end{array} $	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 2,85 2,85 2,85 4,65 0,14	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77 '81 1867 '72 '73 (1) (1) (2) '82 '85 1881 (1) '81 '85 1881 (1) '81 '85 1881	$ 0.19 \\ 0.08 \\ $	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 1.85	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
19. Placerville 19. Placerville 20. Shingle Springs 21. Healdsburgh 22. Santa Rosa 23. Sonoma 24. Templeville 25. Stony Pointt 26. Petaluma 27. Calistoga 28. Napa City 29. Knoxville 20. Folsom 21. Sacramento 22. Camp Far West 23. Brighton 24. Galt 25. Jone 26. Stater Creek 27. Jackson 28. Winters 29. Kintra 20. Toperation 21. Jackson 22. Jackson 23. Prighton 24. Galt 25. Tone 26. Sutter Creek 27. Jackson 28. Winters 29. Elmira 20. Zingerton	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ \hline 2.11\\ 3.11\\ 2.48\\ 6.19\\ 1.95\\ 4.46\\ 2.89\\ 2.31\\ 8.39\\ 4.78\\ 5.17\\ 5.17\\ 5.17\\ 3.14\\ 4.37\\ 1.87\\ \hline \end{array}$	7.34 1862 2.84 1873 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1887 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887	1.13 0.39 0.29 0.06 0.53 0.79 0.76 0.84 0.69 0.86 0.86 0.86 0.86 0.84 0.81 1.33 1.24 0.16	6, 25 4, 88 1, 18 2, 99 3, 71 1, 50 2, 99 4, 83 2, 99 4, 85 2, 99 4, 85 4, 65	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	^{177 '81} 1867 '72 '73 (¹) (¹) (¹) '82 '85 1881 (¹) (¹)	0.19 0.08 0.00 0.35 0.27 0.31 0.27 0.00 0.72 0.13 0.00 0.20 0.18 0.30 0.42 0.00	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.36 2.03 1.85	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City 59. Knoxville 50. J. Sacramento 52. Camp Far West. 53. Brighton 64. Galt 65. Jone 66. Sutter Creek 67. Jackson 68. Winters. 69. Elmira 70. Vacaville 71. Denverton	$\begin{array}{c} 8. 19 \\ 0. 95 \\ 1. 01 \\ 3. 54 \\ 1. 51 \\ \hline 2. 111 \\ 3. 11 \\ 2. 48 \\ 6. 19 \\ 2. 81 \\ 1. 95 \\ 4. 46 \\ 2. 89 \\ 2. 81 \\ 8. 39 \\ 4. 78 \\ 5. 17 \\ 3. 30 \\ 3. 14 \\ 4. 31 \\ 1. 87 \\ 1. 74 \end{array}$	7.34 1862 2.84 1878 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1887 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.06\\ 0.53\\ 0.79\\ 0.66\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.52\\ 0.74\\ 0.81\\ 1.33\\ 1.24\\ 1.6\\ 0.67\\ 1.03\\ 0.56\\ 0.53\\ \end{array} $	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 2,85 2,85 2,85 4,65 0,14	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77 '81 1867 '72 '73 (1) (1) (2) '82 '85 1881 (1) '81 '85 1881 (1) '81 '85 1881	$ 0.19 \\ 0.08 \\ 0.00 \\ 0.35 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.35 \\ 0.35 \\ 0.35 \\ 0.35 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.26 \\ 0.26 \\ \end{array} $	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 1.85	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
19. Placerville 19. Placerville 20. Shingle Springs 21. Healdsburgh 22. Santa Rosa 23. Sonoma 25. Stony Pointt 26. Petaluma 27. Callstoga 28. Napa City 29. Knoxville 20. Folsom 21. Sacramento 22. Camp Far West 23. Brighton 24. Galt 25. Jone 26. Sutter Creek 27. Jackson 28. Winters 29. Elmira 20. Vacaville 21. Joneverton 22. Saisun and Fairfield 23. Rispiration	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ 2.11\\ 3.11\\ 2.48\\ 6.19\\ 2.91\\ 1.95\\ 4.46\\ 2.89\\ 2.81\\ 8.390\\ 4.78\\ 5.17\\ 3.90\\ 4.31\\ 1.87\\ 1.74\\ 2.34\\ \end{array}$	7.34 1862 2.84 1873 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887 1.54 1885 0.00 1875	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.06\\ 0.53\\ 0.79\\ 0.76\\ 0.16\\ 0.84\\ 0.69\\ 0.86\\ 0.52\\ 0.74\\ 0.81\\ 1.24\\ 0.16\\ 0.52\\ 0.74\\ 0.53\\ 0.55\\ 0.53\\ 0.53\\ 0.55\\ 0.53\\ 0.75\\ 0.55$	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 4,65 4,65 0,14 7,58 3,92	1866 1878 1883 1883 1883 1883 1883 1883 18	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	⁷⁷⁷ '81 18867 '72 '73 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	$ 0.19 \\ 0.08 \\ 0.00 \\ 0.35 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.00 \\ 0.72 \\ 0.13 \\ 0.00 \\ 0.20 \\ 0.18 \\ 0.32 \\ 0.00 \\ 0.44 \\ 0.32 \\ 0.00 \\ 0.00 \\ 0.29 \\ 0.21 \\ \end{array} $	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City. 59. Knoxville 50. Stong Par West. 53. Brighton 64. Galt. 56. Store Peters. 69. Stater Creek 67. Jackson 68. Winters. 69. Elmira. 70. Vacaville 71. Denverton 72. Suisun and Fairfield 73. Rio Vista	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ \hline 2.11\\ 3.11\\ 2.91\\ 4.6\\ 2.91\\ 4.6\\ 2.89\\ 2.81\\ 8.39\\ 4.78\\ 5.17\\ 8.59\\ 3.14\\ 4.38\\ 5.17\\ 1.74\\ 2.39\\ 1.87\\ 1.74\\ 2.19\\ \end{array}$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1875 0.00 1881 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887 1.54 1885	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.66\\ 0.66\\ 0.66\\ 0.66\\ 0.66\\ 0.69\\ 0.52\\ 0.74\\ 0.69\\ 0.52\\ 0.74\\ 0.69\\ 0.52\\ 0.74\\ 0.16\\ 0.52\\ 0.53\\ 0.53\\ 0.53\\ 0.53\\ 0.47\\ \end{array} $	6,25 4,88 1,18 2,99 3,71 1,50 2,85 2,85 2,85 2,85 2,99 4,83 3,04 4,65 4,65 14 7,58	1866 1878 1883 1883 1883 1883 1883 1883 18	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77 '81 1867 '72 '73 (') '82 '85 1881 (') '81 '85 1881 (') '81 '85 1881 (')	$\begin{array}{c} 0.19\\ 0.08\\ 0.00\\ 0.35\\ 0.27\\ 0.31\\ 0.27\\ 0.00\\ 0.72\\ 0.13\\ 0.00\\ 0.20\\ 0.30\\ 0.44\\ 0.32\\ 0.00\\ 0.20\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Santa Ross 53. Sonoma 54. Templeville 55. Stony Point 56. Petalnus 57. Calistoga 58. Napa City 59. Knorville 50. Folsom 51. Saoramento 52. Camp Far West 53. Brighton 54. Jackson 55. Jone 68. Winters 69. Winters 69. Elmira 70. Vacaville 71. Denverton 72. Snienn and Fairfield 73. Bioty ista 74. South Vallejo 75. Bird's Landing	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ \hline \\ 2.11\\ 3.11\\ 2.48\\ 6.19\\ 2.91\\ 1.92\\ 2.91\\ 1.46\\ 2.89\\ 4.78\\ 5.17\\ 3.94\\ 4.31\\ 1.87\\ 1.74\\ 2.34\\ 2.19\\ 1.21\\ \end{array}$	7.34 1862 2.84 1873 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '78 '75 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887 1.54 1885 0.00 1875	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.06\\ 0.53\\ 0.79\\ 0.76\\ 0.16\\ 0.84\\ 0.69\\ 0.86\\ 0.52\\ 0.74\\ 0.81\\ 1.24\\ 0.16\\ 0.52\\ 0.74\\ 0.53\\ 0.55\\ 0.53\\ 0.53\\ 0.55\\ 0.53\\ 0.75\\ 0.55$	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 4,65 4,65 0,14 7,58 3,92	1866 1878 1883 1883 1883 1883 1883 1883 18	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	(¹) ($ 0.19 \\ 0.08 \\ 0.00 \\ 0.35 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.31 \\ 0.27 \\ 0.00 \\ 0.72 \\ 0.13 \\ 0.00 \\ 0.20 \\ 0.18 \\ 0.32 \\ 0.00 \\ 0.44 \\ 0.32 \\ 0.00 \\ 0.00 \\ 0.29 \\ 0.21 \\ \end{array} $	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 50. Shingle Springs 51. Healdsburgh 52. Santa Rose 53. Sonoma 54. Templeville 55. Stony Point 56. Petaluma 57. Calistoga 58. Napa City 59. Knoxville 50. Folsom 51. Sacramento 52. Camp Far West 53. Brighton 54. Gatt 55. Jone 66. Sutter Creek 67. Jackson 68. Winters 69. Elmira 71. Denverton 72. Saiton and Fairfield 73. Suoth Vallejo 74. South Vallejo 75. Bencia Barracks 77. Point Reves	$\begin{array}{c} \textbf{8. 19} \\ \textbf{0. 95} \\ \textbf{0. 91} \\ \textbf{1. 61} \\ \textbf{2. 111} \\ \textbf{3. 54} \\ \textbf{1. 51} \\ \textbf{2. 111} \\ 2. $	7.34 1862 2.84 1878 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1884 0.00 1877 (T) 1875 0.50 1881 1.0 1878 1.34 2.06 1887 1.54 1885 0.00 1877 0.00 1877 0.00 1877	$ \begin{array}{c} 1.13\\ 0.39\\ 0.06\\ 0.52\\ 0.79\\ 0.76\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.52\\ 0.74\\ 0.81\\ 1.24\\ 0.66\\ 0.52\\ 0.75\\ 0.75\\ 0.06\\ 0.53\\ 0.75\\ 0.07\\ 1.03\\ 0.53\\ 0.75\\ 0.49\\ 0.90\\ 0.66\\ 0.53\\ 0.75\\ 0.00\\ 0.49\\ 0.76\\ 0.00\\ 0.49\\ 0.76\\ 0.00\\ 0.49\\ 0.76\\ 0.00\\ 0.49\\ 0.76\\ 0.00\\ 0.68\\ 0.53\\ 0.67\\ 0.00\\ 0.68\\ 0.53\\ 0.67\\ 0.00\\ 0.68\\ 0.53\\ 0.67\\ 0.00\\ 0.68\\ 0.53\\ 0.68$	6.25 4.88 1.18 	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	¹⁷⁷ ⁷⁸¹ 1867 ⁷² ⁷³ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾	$\begin{array}{c} 0.19\\ 0.08\\ 0.08\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.02\\ 0.13\\ 0.00\\ 0.72\\ 0.13\\ 0.00\\ 0.02\\ 0.18\\ 0.32\\ 0.00\\ 0.44\\ 0.32\\ 0.00\\ 0.44\\ 0.32\\ 0.00\\ 0.26\\ 0.21\\ 0.18\\ 0.00\\ 0.26\\ 0.21\\ 0.18\\ 0.00\\ 0.26\\ 0.21\\ 0.18\\ 0.20\\ 0.26\\ 0.21\\ 0.18\\ 0.00\\ 0.18\\ 0.20\\ 0.26\\ 0.21\\ 0.18\\ 0.20\\ 0.26\\ 0.21\\ 0.28\\ 0.20\\ 0.28\\ 0.20\\ 0.28\\ 0.20\\ 0.28\\ 0.20\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Ross 53. Sonoma 53. Sonoma 54. Templeville 55. Stony Point 56. Petaluma 57. Callstoga 58. Napa City 59. Knoxville 50. Folsom 51. Sacramento 52. Samp Far West 53. Brighton 54. Jackson 56. Jone 56. Jone 57. Salistoga 58. Winters 69. Elmira 70. Vacaville 71. Joenverton 72. Rio Vista 74. Sonth Vallejo 75. Bird's Landing 76. Benicia Barracks 77. Point Reyee 78. San Rafael	$\begin{array}{c} 3.19 \\ 0.95 \\ 1.01 \\ 3.54 \\ 1.51 \\ 2.111 \\ 3.11 \\ 3.11 \\ 3.11 \\ 1.95 \\ 4.46 \\ 2.89 \\ 2.81 \\ 3.34 \\ 4.31 \\ 1.87 \\ 3.90 \\ 4.06 \\ 3.94 \\ \end{array}$	7.34 1862 2.84 1873 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 1.81 1883 1.10 1878 1.54 1885 0.00 1877 0.00 1877 0.00 1877 0.00 1877	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.53\\ 0.76\\ 0.53\\ 0.76\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.81\\ 1.24\\ 0.66\\ 0.52\\ 0.76\\ 0.81\\ 1.24\\ 0.66\\ 0.52\\ 0.75\\ 0.47\\ 0.66\\ 0.53\\ 0.75\\ 0.47\\ 0.49\\ 0.66\\ 0.56\\ 0.56\\ 0.56\\ 0.56\\ 0.56\\ 0.19\\ 0.66\\ 0.56$	6.25 4.88 1.18 2.99 3.71 1.50 4.57 2.85 2.99 4.83 3.04 4.65 0.14 7.58 3.92 2.53 3.41 1.78	1863 1878 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77'81 1867 '72'73 '72'73 '() '82'85 1881 (') '81'85 1881 1887 (') '() '() '() '() '()	$\begin{array}{c} 0.19\\ 0.08\\ 0.08\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.31\\ 0.27\\ 0.13\\ 0.27\\ 0.13\\ 0.27\\ 0.13\\ 0.27\\ 0.13\\ 0.02\\ 0.13\\ 0.00\\ 0.20\\ 0.44\\ 0.32\\ 0.00\\ 0.20\\ 0.20\\ 0.21\\ 0.18\\ 0.20\\ 0.16\\ 0.20\\ 0.40\\ 0.40\\ 0.40\\ 0.20\\ 0.40\\ 0.20\\ 0.00\\ 0.00\\ 0.20\\ 0.21\\ 0.18\\ 0.20\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.22\\ 0.00\\ 0.22\\ 0.00\\ 0.22\\ 0.00\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75 2.07	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City 59. Knoxville 60. Folsom 61. Sacramento 62. Camp Far West. 63. Brighton 64. Galt. 65. Jone 66. Sutter Creek 67. Jackson 68. Winters 69. Elmira 70. Vacaville 71. Denverton 72. Sniann and Fairfield 73. Rio Vista 74. South Vallejo 75. Bird's Landing 76. Benicia Barracks 77. Point Reyee 78. San Rafael 79. Ross Valley	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ 2.11\\ 2.48\\ 6.19\\ 2.81\\ 1.92\\ 2.91\\ 1.95\\ 2.81\\ 1.95\\ 2.81\\ 1.95\\ 2.81\\ 1.97\\ 2.19\\ 1.22\\ 1.91\\ 1.97\\ 1.74\\ 2.19\\ 1.21\\ 1.87\\ 1.74\\ 2.34\\ 2.19\\ 1.21\\ 1.87\\ 1.74\\ 2.36\\ 3.90\\ 3.14\\ 4.31\\ 1.87\\ 1.74\\ 2.36\\ 3.90\\$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1884 0.00 1877 (T) 1875 0.50 1881 1.83 1.10 1878 1.34 2.06 1887 1.54 1885 0.00 1875 0.00 1875 0.00 1877 0.00 1877 0.00 1877	$ \begin{array}{c} 1.13\\ 0.29\\ 0.06\\ 0.79\\ 0.79\\ 0.79\\ 0.76\\ 0.16\\ 0.68\\ 0.52\\ 0.74\\ 0.88\\ 1.24\\ 0.68\\ 0.52\\ 0.74\\ 0.81\\ 1.33\\ 1.24\\ 0.016\\ 0.53\\ 0.75\\ 0.47\\ 1.03\\ 0.53\\ 0.75\\ 0.47\\ 1.03\\ 0.66\\ 0.53\\ 0.75\\ 0.47\\ 1.19\\ 0.00\\ 0.76\\ 1.19\\ 0.16\\ 0.53\\ 0.76\\ 0.49\\ 0.76\\ 0.49\\ 0.76\\ 0.49\\ 0.76\\ 0.00\\ 0.53\\ 0.76\\ 0.49\\ 0.76\\ 0.49\\ 0.76\\ 0.00\\ 0.53\\ 0.76\\ 0.49\\ 0.76\\ 0.00\\ 0.0$	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 2,85 2,85 2,85 2,85 2,85 2,85 2,85	1866 1878 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	(¹) ($\begin{array}{c} 0.19\\ 0.08\\ 0.03\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.27\\ 0.35\\ 0.20\\ 0.44\\ 0.32\\ 0.20\\ 0.44\\ 0.32\\ 0.20\\ 0.40\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.29\\ 0.26\\ 0.21\\ 0.18\\ 0.00\\ 0.20\\ 0.21\\ 0.18\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.36 2.03 1.85 1.85 1.85 1.85 1.85 1.69 1.74 2.47 1.75 2.07 2.72	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Ross 53. Sonoma 53. Sonoma 54. Templeville 55. Stony Point 56. Potalnus 57. Calistoga 58. Napa City 59. Knoxville 50. Folsom 51. Saoramento 52. Sang Par West 53. Brighton 54. Jackson 56. Jone 56. Sutter Creek 67. Jackson 68. Winters 69. Zhism and Fairfield 70. Vacaville 71. Denverton 72. Snism and Fairfield 73. Biot Vista 74. South Vallejo 75. Bird's Landing 76. Benicia Barracks 77. Point Reyee 78. Ros Valley 79. Sace Valley	$ \begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 2.11\\ 1.01\\ 3.54\\ 1.01\\ 2.11\\ 1.01\\ 2.11\\ 1.01\\ 2.01\\ 1.05\\ 2.01\\ 1.05\\ 2.01\\ 1.05\\ 1.01\\ 1.05\\ 1.01\\ 1.05\\ 1.01\\ 1.0$	7.34 1862 2.84 1878 	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.54 1885 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877	$ \begin{array}{c} 1.13\\ 0.39\\ 0.29\\ 0.53\\ 0.76\\ 0.53\\ 0.76\\ 0.76\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.84\\ 0.86\\ 0.76\\ 0.75\\ 0.47\\ 0.16\\ 0.06\\ 0.75\\ 0.47\\ 0.16\\ 0.06\\ 1.19\\ 0.76\\ 0.16\\ 0.06\\ 1.19\\ 0.76\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06\\ 0.16\\ 0.06$	6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 4,65 4,65 3,92 3,41 1,78 3,22 0,32 4,30	1866 1878 1883 1883 1883 1883 1883 1883 1883	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77'81 1867 '72'73 '72'73 '() '82'85 1881 (') '182'85 1881 (') '182'85 1881 (') '1881 (') '1881 (') '1881 (') '1881 (') '1881 (') '1867 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 (') '1887 '1857 '1857 '1867 '1867 '1867 '1877	$\begin{array}{c} 0.19\\ 0.08\\ 0.019\\ 0.08\\ 0.019\\ 0.035\\ 0.035\\ 0.035\\ 0.035\\ 0.031\\ 0.031\\ 0.031\\ 0.00\\ 0.$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 1.85 1.85 1.69 1.74 1.74 2.07 2.77 2.57	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
49. Placerville 49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointt 56. Petaluma 57. Callstoga 58. Napa City. 59. Konzville 60. Folsom 61. Sacramento 62. Camp Far West. 63. Brighton 64. Galt. 65. Stone 66. Stater Creek 67. Jackson 68. Winters 69. Elmira 70. Vacaville 71. Denverton 72. Saiann and Fairfield 73. Rio Vista 74. South Vallejo 75. Bird's Landing. 76. Benicia Barracks 77. Point Reyes 78. San Rafael 79. Ross Valley 78. Saucelito 78. Angfael Jaland	$\begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 1.51\\ 2.11\\ 2.48\\ 8.12\\ 2.91\\ 1.95\\ 2.89\\ 2.81\\ 1.95\\ 2.89\\ 4.78\\ 5.17\\ 1.74\\ 4.31\\ 1.87\\ 1.74\\ 2.19\\ 1.23\\ 3.90\\ 3.14\\ 4.31\\ 1.87\\ 1.74\\ 2.34\\ 2.32\\ 3.91\\ 2.32\\ 3.91\\ 2.32\\ 3.91\\ 2.32\\ 3.91\\ 3.91\\ 2.32\\ 3.91\\$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 0.81 1883 1.10 1878 1.34 2.06 1887 1.54 1885 0.00 1875 0.00 1875 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877 0.00 1877	$ \begin{array}{c} 1.13\\ 0.29\\ 0.06\\ 0.79\\ 0.79\\ 0.79\\ 0.78\\ 0.79\\ 0.78\\ 0.68\\ 0.52\\ 0.74\\ 0.84\\ 0.68\\ 0.53\\ 0.74\\ 0.68\\ 0.53\\ 0.74\\ 0.06\\ 0.53\\ 0.74\\ 0.06\\ 0.53\\ 0.76\\ 0.47\\ 0.00\\ 0.00$	6,25 4,88 1,18 2,99 3,71 1,50 1,50 2,85 2,99 4,83 3,04 4,65 4,65 2,53 3,41 1,78 3,22 0,32 4,30 3,52	1863 1873 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	(¹) ($\begin{array}{c} 0.19\\ 0.08\\ 0.00\\ 0.05\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.00\\ 0.32\\ 0.00\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75 2.72 2.57 2.66	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Ross 53. Sonoma 54. Templeville 55. Stony Pointi 56. Petalnana 57. Calistoga 58. Napa City 59. Knoxville 60. Folsom 61. Saoramento 62. Camp Far West 63. Brighton 64. Galt 65. Ione 66. Sutter Creek 67. Jackson 68. Winters 69. Elmira 70. Vacaville 71. Sainn and Fairfield 73. Rio Vista 74. South Vallejo 75. Bird's Landing 76. Benicia Barracks 77. Point Reyes 78. Rose Valley 80. Saucelito 81. Angel Island 82. Point Bonita	$ \begin{array}{c} 3.19\\ 0.95\\ 1.01\\ 3.54\\ 2.11\\ 1.01\\ 3.54\\ 1.01\\ 2.11\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 1.95\\ 2.91\\ 2.92\\ 2.9$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1881 0.81 1883 1.10 1878 1.54 1885 0.00 1877 0.00 1877 0.00 1877 0.00 1875 0.00 1875 0.00 1875 0.00 1875 0.00 1875 0.00 1877		6,25 4,88 1,18 2,99 3,71 1,50 4,57 2,85 4,65 2,85 2,99 4,83 3,04 4,65 2,53 3,41 1,78 2,53 3,22 0,32 4,30 4,52 4,36	1866 1878 1883 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77'81 1867 '72'73 '72'73 '82'85 1881 (') '81'85 1881 (') '81'85 1881 1887 (') (') (') (') (') (') (') (') (') 1881	$\begin{array}{c} 0.19\\ 0.08\\ 0.08\\ 0.05\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.00\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75 2.66 2.99	1862 1872 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
49. Placerville 50. Shingle Springs. 51. Healdaburgh 52. Santa Rosa 53. Sonoma 54. Templeville 55. Stony Pointi 56. Petaluma 57. Calistoga 58. Napa City 59. Knorville 60. Folsom 61. Saoramento 62. Camp Far West 63. Brighton 64. Galt 65. Jone 66. Souter Creek 67. Jackson 68. Winters 69. Elmira 70. Vacaville 71. Suitur Arakis 72. Suisun and Fairfield 73. Rio Vista 74. South Vallejo 75. Bird's Landing 76. Bencica Barracks 77. Point Reyes 78. Soave Valley 79. Ross Valley 79. Ross Valley 70. Sauceiito 81. Angel Island 82. Point Bonita 83. Mare Island 84. Alcetraz Island	$ \begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 2.11\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 3.11\\ 3.11\\ 3.90\\ 4.76\\ 3.94\\ 4.46\\ 3.94\\ 4.46\\ 3.94\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.44\\ 3.14\\ 1.44\\ 3.14\\ 1.44\\ 3.14\\ 1.44\\ 3.14\\ 1.44\\ 3.14\\ 1.44\\ 1.44\\ 1.44\\ 1.45\\ 1.44\\ 1.45\\ 1.4$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1881 0.81 1883 1.10 1878 1.54 1885 0.00 1877 0.00 1875 0.00 1875	$ \begin{array}{c} 1.13\\ 0.29\\ 0.06\\ 0.79\\ 0.79\\ 0.79\\ 0.76\\ 0.79\\ 0.76\\ 0.68\\ 0.52\\ 0.74\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.69\\ 0.84\\ 0.68\\ 0.52\\ 0.74\\ 0.81\\ 1.33\\ 0.56\\ 0.53\\ 0.75\\ 0.47\\ 1.03\\ 0.53\\ 0.75\\ 0.47\\ 1.03\\ 0.53\\ 0.75\\ 0.47\\ 0.97\\ 0.38\\ 0.53\\ 0.75\\ 0.47\\ 0.97\\ 0.38\\ 0.53\\ 0.75\\ 0.47\\ 0.97\\ 0.38\\ 0.53\\ 0.53\\ 0.75\\ 0.47\\ 0.97\\ 0.38\\ 0.53$	6,25 4,88 1,18 2,99 3,71 1,50 1,50 2,85 2,99 4,83 3,04 4,65 4,65 2,53 3,41 1,78 3,22 0,32 4,30 3,52	1863 1873 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	(¹) ($\begin{array}{c} 0.19\\ 0.08\\ 0.08\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.00\\ 0.31\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.18\\ 0.00\\ 0.26\\ 0.21\\ 0.00\\ 0.29\\ 0.26\\ 0.21\\ 0.39\\ 0.40\\ 0.89\\ 0.40\\ 0.50\\ 0.20\\ 0.00\\$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75 2.72 2.57 2.66	1862 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
49. Placerville 49. Placerville 50. Shingle Springs. 51. Healdsburgh 52. Santa Ross 53. Sonoma 53. Sonoma 54. Templeville 55. Stony Point 56. Petalnus 57. Callstoga 57. Callstoga 58. Napa City 59. Knoxville 60. Folsom 61. Sacramento 62. Camp Far West. 63. Brighton 64. Galt. 65. Jone 66. Sutter Creek 67. Jackson 68. Winters. 69. Elmira 70. Vacaville. 71. Denverton 72. Rio Vista 74. Sonth Vallejo 75. Bird's Landing. 76. Benicia Barracks 77. Point Reyee 78. San Rafael 79. Rose Valley 80. Saucelito 80. Saucelito 80. Agrie Island 82. Apoint Bonita 83. Marg Island	$ \begin{array}{c} 8.19\\ 0.95\\ 1.01\\ 3.54\\ 2.11\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 2.41\\ 3.11\\ 3.11\\ 3.11\\ 3.90\\ 4.76\\ 3.94\\ 4.46\\ 3.94\\ 4.46\\ 3.94\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 4.31\\ 1.74\\ 1.22\\ 1.14\\ 1.43\\ 1.44\\ 1.48\\ 1.4$	7.34 1862 2.84 1878	0.00 1857 0.00 '72 '73 0.00 '72 '73 0.00 '72 '73 0.00 1875 0.00 1875 0.00 1875 0.00 1877 (T) 1875 0.50 1881 1.883 1.10 1878 1.54 1885 0.00 1877 0.00 1877 0.00 1877 0.00 1875 3.64 1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69		6, 25 4, 88 1, 18 2, 99 3, 71 1, 50 4, 57 2, 85 2, 99 4, 83 3, 04 4, 65 0, 14 4, 65 0, 14 3, 92 2, 53 3, 41 1, 78 3, 22 0, 32 4, 30 3, 52 4, 30 3, 44 3, 44	1866 1878 1883 1883 1883 1879 1883 1883 1883 1883 1883 1883 1883 188	0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.00	'77'81 1867 '72'73 '72'73 '82'85 1881 (') '81'85 1881 (') '81'85 1881 1887 (') (') (') (') (') (') (') (') (') 1881	$\begin{array}{c} 0.19\\ 0.08\\ 0.08\\ 0.035\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.00$	1.90 0.25 2.80 2.06 2.12 1.64 1.45 1.55 1.36 2.03 1.85 0.00 1.78 1.69 1.74 2.47 1.75 2.66 2.99	1862 1872 1872 1884 1884 1884 1884 1884 1884 1884 188	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(*) (*) (*) (*) (*)

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

(†) No data.

(1) Frequently.

(4) Generally. (T) T



Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

1					July					Augus	t.			Septen	ıber.	
Name and numbe	er of a	tation.	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Maxi	mum.	Mi	nimum.	Aver- age.	Maximum	Minin	num.
148, Georgetown 149, Placerville 150, Shingle Springs 151, Healdsburgh	• • • • • • • •		<i>Ins.</i> 0.06 0.04 0.19 0.00	Ins. 0.77 0.49 2.56 0.00	Yrs. 1876 1876 1862	<i>Ins.</i> 0.00 0.00 0.00 0.00	Yrs. (¹) (¹) (²)	Ins. (T) 0.01 0.00 . 0.02	Ins. 0.01 0.07 0.00 0.05	Yrs. 1884 1876	Ins 0.00 0.00 0.00 0.00) (¹) (¹)	Ins. 0.49 0.37 0.23 0.24	Ins. Yrs 2. 03 188 1. 67 188 1. 23 185 0. 70 187	L 0.00 3 0.00 0 0.00	Yrs. (¹) (²) (²) 1871
152, Santa Rosa† 153, Sonoma 154, Templeville 155, Stony Point	· · · · · · · · · · · · · · · · · · ·		(T) 0.00					0.00					(T) 0.56 0.40		•• •••••	
156, Petaluma 157, Calistoga 158, Napa City 159, Knoxville	· · · · · · · · · · · · · · · · · · ·		(T) 0.00 0.01 0.00	0.06 0.00 0.05	1877 1877	0,00 0,00 0,00	(²) 	(T) 0.00 0.00 0.00	0.01 0.00 0.00	1872	0.00 0.00 0.00		0.12 0.23 0.43 0.00	0.68 188 1.14 188 2.11 188	3 0.00 2 0.00	(¹) (¹) (¹)
160, Folsom 161, Sacramento 162, Camp Far West			0. 02 0. 03 0. 00	0.26 0.63	1876 1860	0.00	(²) (²)	(T) (T) . 0.00	0.03	1876 1864	0.00	(*)	0.20 0.11 2.30	1.82 188 1.00 185	B 0.00 L 0.00	(*) (1)
163, Brighton 164, Galt 165, Ione 166, Sutter Creek			0.00 0.00 0.00 0.03	0.00 0.00 0.00	•••••	0.00	••••• ••••	0.00	0.00 0.00 0.00	•••••	0.00		0.18 0.26	0.66 188 0.62 188 1.14 188	8 0.00 8 0.00	(*) (*) (1)
167, Jackson 168, Winters 169, Elmira 170, Vacaville			0.00 0.00 0.00 0.01	0,00		0.00	 (*)	. 0.00 . 0.00 0.00 0.00	0.00 0.00 0.00	•••••	0.00		0.42 0.00 0.00 0.21	1.05 0.00 1.10 188	0.00	(¹) (¹)
171, Denverton 172, Suisun and Fairf 173, Rio Vista 174, South Vallejo	leld .		0.01 0.00 0.00 0.00	0.00		0.00	·····	. (T) . 0.00 . 0.01 . 0.00	0.00		0.00		0. 14 0. 26 0. 20 0. 10	1.00 187 0.61 188	0.00	(²) (²)
175. Bird's Landing. 176. Benicia Barracka 177. Point Reyes 178. San Rafael	s		0.00 0.01 0.00 (T)	0.33 0.00 0.03	1860 1877	0.00	(*) (*)	. 0.01 0.01 0.00 0.00	0.10 0.00 0.00	1858	0.00 0.00 0.00	(*)	0.05 0.07 0.30 0.34	0.68 188 0.60 1.84 188	0.00	(*) (*) (*) (+)
179, Ross Valley 180, Sancelito 181, Angel Island 182, Point Bonita			0.00 0.02 0.01 0.03	0.00 0.00 0.24 0.39	1886 1877	0.00 0.00 0.00 0.00	(*) (*)	. 0.00 . 0.00 (T) 0.00	0.00 0.00 0.06 0.00	1884	0.00 0.00 0.00 0.00	 (*)	0. 17 0. 26 0. 14 0. 25	0. 28 0. 45 0. 64 '76 '78 1. 22 1878	0.00	() ()
183, Mare Island 184, Alcatraz Island . 185, Fort Point 186, San Francisco		•••••	0. 13 0. 01 0. 01 0. 02	0.15	1886	0.00	(²) (²)	0.01 0.00 0.02	0. 25 0. 21	1884	0.00	(ª)	0.08 0.05 0.16	0.30 1884 1.03 1851	0.00	(¹)
-		Octob	er.				ember.				embe	1		Те	 	
Name and number of station.	Aver- age.	Maximun		imum.	Aver- age.			inimam.	Aver- age.	1		Minimum	. Mee	n. Maximu	m. Mini	mum.
148. Georgetown 149. Placerville 130. Shingle Springs 151. Healdsburgh 152. Santa Rosa 153. Sonoma 154. Templeville 155. Stony Pointt	Ins. 3.47 2.90 0.78 0.11 0.95 0.24	Ins. Yra 11. 47 1876 6. 16 1876 3. 72 1854 0. 34 1878	5 0.0 5 0.0 6 0.0 8 0.0	6. Yrs. 0 1872 0 1873 0 (¹) 0 1871	5.48	Ins. 24. 12 1 17. 64 1 11. 16 1 2. 74 1	875 0. 875 0. 859 0. 871 0.	ns. Yrs. 03 00 1873 37 1862 30 1878	Ins. 10. 29 1. 82 7. 52 15. 22 12. 07 3. 41	22.65	1867 1871	Ins. Yrs 0. 00 1870 0. 00 '73 '7 1. 99 1857 10. 03 1872	60. 0 6 39. 0 34. 2 35. 9	4 81.24 75- 4 61.81 75- 6 81.80 61- 3	rs. Ins. 76* 40. 48 76* 22. 67 62* 17. 18	76-77* 76-77* 50-51*
156, Petaluma 157, Calistoga 158, Napa City 159, Knoxville 160, Folsom	0.95 1.78 0.67 1.92 1.09	5. 20 1870 9. 05 1870 1. 91 1878 3. 76 1870	3 0.0 3 0.0 5 0.0	0 (1) 0 73 80	2.50 3.06 1.78 0.85 2.63	11. 33 1 15. 67 1 8. 51 1 10. 91	885 0. 885 0.	00 1876 00 (¹) 00 (¹)	4.23 4.89 8.62 1.54 4.59	13.86 15.83 10.16 13.12	1880 1884 1871	0.00 1876 0.00 1876 0.00 1876 0.00 1876	30. 4 22. 0 . 34. 5 23. 9	9 50. 20 77- 9 83. 64 77- 3	-78* 9.30	76-77* 72-73* 76-77* 76-77* 50-51*
161, Sacramento 162, Camp Far West 163, Brighton 164, Galt 165, Ione 166, Sutter Creek	0.10 0.61	3. 45 1870 1. 80 1885 2. 17 1885 1. 82 1885	0.0	0 (¹) 0 (¹) 0 '80 '85 0 (¹)	2.06 3.96 1.46 1.27 1.67 3.88	11. 34 1 7. 76 1 5. 56 1 8. 45 1	885 0. 885 0	00 1884 00 '80 '8 00 '80 '8 00 1884	2.44	13. 41 6. 17 6. 35 8, 22	1884 1880	0.00 1876 0.44 1883 0.25 1882 0.25 1882	41. 2	20 33 24.42 79 47 19.35 85 44 29.73 83	-80* 9. 22 -86* 9. 61 -84* 13. 04	81-82* 84-85*
167, Jackson 168, Winters 169, Elmira 170, Vacaville	1.66	5.62 188 0.38 188 3.11 188	i 3 0.0	0 0 1887 0 1880	3.04 8.74 0.38 3.11	12.80 0.761 15.981	887 0	10 00 1886 00 1884	4.28 4.86 4.74 2.72 7.63	14. 64 21. 85		0.70 1878 1.15 1882	31.4 25.4 15.5	6 37.90 83- 0	84* 21. 20 81* 20. 44	••••••
171, Denverton 172, Suisun& Fairf'd 173, Rio Vista 174, South Vallejo 175, Bird's Landing.	0.98 0.69 0.80 0.65	2. 53	0.0	0 (¹) 0 (¹)	2.43 1.90 2.07 1.55	10.38 1 7.87 1	885 0	.00 1884	2.51 4.67 3.16 2.69	16.95	1871	0.00 1876	17.9 19.3 16.9 15.5	4 35 31.50 71 4 26.16 85	-72* 6. 98 -86* 7. 48	76-77*
175, Bird's Landing. 176, Benicia Barr'ks 177, Point Reyes 178, San Rafael 179, Ross Valley	0.84 1.49 1.37 2.30 1.84	2.80 1870 1.80 1883 7.35 1870 3.40	3 0.0 2 0.0 3 0.0	0 (¹) 0 (¹) 1 1880 2	3.72 1.78 3.81 4.68	8.75 1 6.80 1 14.23 1 15.96 .	885 0. 879 0. 874 0	.00 (¹) .00 1876 .12 1876	1.36 3.27 6.12 7.03	11. 11 11. 43 25. 10	1871 1880	0.00 1876 0.00 1876 0.00 1876	14.8 16.7 28.0 38.9	34 28.17 85 78 28.17 85 99 56.40 77	-86* 5. 24 -78* 19. 22	70-71* 76-77*
180, Saucelito 181, Angel Island 182, Point Bonita. 183, Mare Island	1.65 1.04 1.70 0.62	3. 79 3. 03 1870 4. 15 1870	0.4 3 0.0		5, 51 4, 21 2, 51 3, 15 1, 82	12.05 11.57 9.22	0. 885 0	. 19 . 13 . 17 1887 . 35	10. 55 5. 13 3. 97 3. 73 7. 75	22.85 12.34 12.06 9.99	1880	1.11 1.31 0.00 1876 0.00 1876	26.2	23 32.86 11 32.54 83- 17 38.74 77-	19.62 -84* 10.93 -78* 16.28	
184. Alcatraz Island 185. Fort Point 186. San Francisco	0.61 0.56	2. 63 188: 3. 36 187		0 (¹) 0 (¹)	1.87 1.67	10. 04 1 11. 78 1		05 1884 15 1862	8.66	11. 80 16. 74		0.00 1876 0.00 1876			-81* 7.69 -62* 7.40	

† No data.

- * Seasonal rain-fall, September to August, inclusive. (1) Frequently.
 - (1) Frequently. (7) Generally.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

	·		Januar	y		I		Februar	у .				March	•	
Name and number of station.	A ver- age.	Maxi	mam.	Mini	mum.	Aver- age.	Maxi	imum.	Min	imum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Γrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
37, Verba Buena Island	. 2.59	9.47	1878	1.05	1880	2.09	9.48	1878	0.00		2.23	5.88	1884	0.00	187
88, Presidio 89, Farallon Islands		8.38 5.89	1868	1.26 0.56	1887	3.30	10.50 4.76	1872	0.00	1875	2.34	8.38	1850	0.50	186
Doint San José	13.01			0.50	· • • • • •	2.68	4. 70	• • • •	0.40		2.35 1.52	5.15	• • • •	0. 67	• • •
1. Antioch	. 1.66	4.74		0.38	1>87	1.52	3.87	1887	0 00	1886	1. 69	5.73	1884	0.35	188
92, Martines	. 2.70	5.39	1886	0.42		2.80	7.25	1878	0.05	1886	2.68	7.97	1884	0.55	188
98, East Brother Island		6.19 4.16	1878 1886	0.31	1882	0,99	2.94 5.05	1878	0.00	1020	0.86	1.60	1884	0.05	186
95, Clayton		4.10	1000	0.00	1001	1.55 3.19	5.05	1007	0 03	1836	1.6i 1.38	4. 18	1884	0. 61	188
6. Mount Diablo	5.16	5.63	1876	4.68	1877	3.44	5. 00	1876	1. 89	1877	0.58	1. 11	1877	0.00	187
7, Byron	2.11	4. 09	1886	0.48	1887	1.59	4.43	1887	0,00	1886	1. 84	5.61	1884	0.19	18
9, Camp Union 99, Farmington	4.00	4.00	1866	0.00	1877	• 92 1.93	5.04	1001	0.00	'77 '85	0.32 2.12				•••
0, Stockton	2.67	5.45	1878	0.36	1887	2.46	8.94	1854	0.05	'85 '86	2.12 2.14	6.53 5.77	1884 1884	0.16	188 185 18
00, Stockton 11, Lathrop	1.94	4.65	1878	0.21	1887	1.88	5.45	1878	0.00	1885	1.54	4. 86	1884	0. 14	18
2. Ellis and Tracy	1.63	3. 68	1875	0.03	1887	1.44	4.15	1878	0 02	1875	1.23	3. 27	1884	0.08	18
3, Berkeley	4 71	10.82	1878	1.31	1887	9.41 3.46	11. 63	1878	0.25	1005	0.98				•••
5. Livermore	± 2.51	5.40	1875	0.90	1887	2.45	6.73	1878	0.20	1885 1886	3.35 2.15	8.59 5.92	1884 1884	0.65	18
6. Pleasanton	3.06	7.93	1878	0.79	1887	3.02	8.88	1878	0.22	1885	2.98	6. 53	1884	0.68	18 18
7, Niles	. 3.09	7.07	1878	1.07	1873	2.99	9.44	1847	0.15	1885	2.17	5.41	1884	0 27	18
98, Midway 19, Calaveras Valley		3, 52 5, 51	1878 1884	1.51	1879	2.11		1878	0.00	1879	0.50	0.99	1878	0.00	18
0 Marsh Ranch	7.54	1	1004	1.17	1883	4.28	9.81	1884	1.94	1883	5.47	9. 30	1884	2. 60	18
1, Langworth	2.38	4.74		1.23		1.16	4.03		0.00		2, 98	5.28		0 62	••••
1. Langworth	2.86	5.63	1876	0.88		2.83	6.07	1884	0 00	1875	2.40	6.06	1884	0.17	••
3, Modesto	+1.72	4.00	1874	0.09	1887	1.21	2.76	1878	0.00	1885	1.19	3, 89	1884	0.05	18
4. Grayson	1 05	5.16 2.52	$\frac{1878}{1886}$	0.67 0.(0	1871 1879	1.77 1.40	4.41 2.94	$\frac{1878}{1884}$	0.12	$ 1875 \\ 1885 $	1.62	5.39	1884	0.13	18
6, Hill's Ferry	1.70	3.81		0.30	1883	1.41	5.76	1884	0.00	1000	2.03	3.32 3.94	1×82 1884	0.32 0.32	18
7. San Mateo	. 14.00	9.87	1878	0.98	1882	2.95	9.74	1878	0. 19	1885	2.64	5.85	1879	0.52	18
8, Crystal Springs	1 7.77	16.28	1878	2.39	1882		21.00	1878	0.56	1883	7.14	14.75	1879	1. 34	18
9, Menlo Park 0. Woodside	. 2.52	4. 97 9. 72	1886	0.65	1882	1.92	4.92	1857	0.12	1885	2.21	4.27	1879	0.46	18
0, Woodside	2 39	10.14	1878	2.74	· · · · · ·	2.74 1.93	7.36	$\frac{1884}{1878}$	0.26 0.50		4.78 2.12	10.90	1884	0.83	::
2, Año Nuevo Island	3.05	9.07	1878	1.11	1883	2.40	10.46	1878	0.58	1877	8.13	4.65 7.28	1876 1884	0.00	18
3, San Andres		23.11	1878	2.72	1882	8. 15	27.87	1878	0.76	1875	6.73	19.82	1879	1.46	18
24, Pilarcitos		24.46	$1866 \\ 1878$	3.91 1.83	1873 1883	8.77		1878	0.74	1875	7.86	19.71	1879	2. 25	18
						2.41	10. 10	1878	0. 19	• • • • •	3. 80	8. 39	1884	0.66	•••
	<u> </u>		April			2.41		May.			a. au	0.39	June.	0.00	
Name and number of station.	A ver-			 		Aver- age.			 	imum.	Aver-				
Name and number of station.	A verage. Ins.	Maxi Ins.	April	 		Aver		May. imum.	Min	imum.	Aver- age.	Maxi	June. mum.	Mini	mam.
Name and number of station.	A ver- age. Ins. 2.18	Maxi Ins. 5.27	April mum. Frs. 1880	Mini Ins. 0.20	mum. Frs. 1877	Aver- age. Ins. 0.45	Maxi Ins. 2.54	May. imum. <i>Yrs.</i> 1883	Min Ins. 0.00	imum. <u>Г</u> <i>тs</i> . 1873	Aver-	Maxi Ing. 2.26	June.		mum. Fre
Name and number of station.	A ver- age. Ins. 2.18 1.84	Maxi Ins. 5.27 7.55	April mum. <i>Frs.</i> 1880 1880	Mini Ins. 0.20 0.00	Frs. 1877 (¹)	Aver- age. 1ns. 0.45 0.53	Maxi Ins. 2.54 3.23	May. imum. <i>Yrs.</i> 1883 1860	Min Ins. 0.00 0.00	imum. Trs.	Aver- age. 1ns. 0.27 0.18	Maxi Ing. 2.26 1.93	June. mum. Frs.	Mini Ins.	mum. Yri
Name and number of station. 37. Verba Buena Island	A ver- age. Ins. 2.18 1.84 2.23	Maxi Ins. 5.27	April mum. Frs. 1880	Mini Ins. 0.20	mum. Frs. 1877	Aver- age. 1ns. 0.45 0.53 0.74	Maxi Ins. 2.54	May. imum. <i>Yrs.</i> 1883 1860	Min Ins. 0.00	imum. <u>Г</u> <i>тs</i> . 1873	Aver- age. 1ns. 0.27 0.18 0.50	Maxi Ing. 2.26	June. mum. <i>Yrs.</i> 1884	Mini Ins. 0. 00	n u m
Name and number of station. 37. Verba Buena Island. 38. Presidio 49. Farallon Islands 40. Point San Joe6	A ver- ige. 2.18 1.84 2.23 1.08 1.46	Maxi Ins. 5.27 7.55	April mum. <i>Frs.</i> 1880 1880	Mini Ins. 0.20 0.00	Frs. 1877 (¹)	Aver- age. 1ns. 0.45 0.53	Max <i>Ins.</i> 2.54 3.23 4.04	May. imum. <i>Yrs.</i> 1883 1860	Min Jns. 0.00 0.00	imum. Irrs. 1873 (¹)	A ver- age. 0.27 0.18 0.50 0.09	Maxi 2.26 1.93 2.81	June. mum. Trs. 1884 1884	Mini Ins. 0.00 0.00	Fra (*) (1)
Name and number of station. 37. Yerba Buena Island 38. Presidio 9. Farallon Islands 90. Point San Joe6 11. Antioch 24. Martinez	A ver- #ge. 2.18 1.84 2.23 1.08 1.46 2.43	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02	A pril mum. 1860 1880 1880 1880	Mini Jns. 0. 20 0. 00 0. 70 0. 25 0. 96	Frs. 1877 (¹) 1882 1879	Aver- age. 0.45 0.53 0.74 0.39 0.45	Maxi Ins. 2.54 3.23 4.04 2.55 2.86	May. imum. <i>Frs.</i> 1883 1860	Min Ins. 0.00 0.00	imum. Frs. 1873 (¹)	Aver- age. 1ns. 0.27 0.18 0.50	Maxi Ing. 2.26 1.93	June. mum. 1884 1884 1884	Mini Ins. 0.00 0.00 	Fra (*) (1)
Name and number of station. 7. Yerba Buena Island. 8. Presidio	A ver- ige. Ins. 2.18 1.84 2.23 1.08 1.46 2.43 0.74	Maxi 5.27 7.55 4.41 3.65 8.02 2.03	April mum. <i>Yrs.</i> 1880 1880 1880 1880	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00	mum. Frs. 1877 (¹) 1882 1879 '76 '77	A ver- age. 1ns. 0.45 0.53 0.74 0.38 0.39 0.45 0.26	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59	May. imum. Frs. 1883 1860 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹) (¹) (¹) (¹) (²) '82' 84	A ver- age. <i>Ins.</i> 0. 27 0. 18 0. 50 0. 13 0. 22 0. 11	Maxi 2. 26 1. 93 2. 81 1. 15 2. 00 0. 30	June. mum. Trs. 1884 1884	Mini Ins. 0.00 0.00	Fri (*) (1) (*) (*) (*)
Name and number of station. 7. Verba Buena Island 8. Presidio 9. Farallon Islands 1. Antioch 2. Martinez 3. East Brother Island 4. Brentwood	A ver- age. Ins. 1.2.18 1.84 2.23 1.08 1.46 2.43 0.74 1.68	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02	A pril mum. 1860 1880 1880 1880	Mini Jns. 0. 20 0. 00 0. 70 0. 25 0. 96	Frs. 1877 (¹) 1882 1879	Aver- age. 0.45 0.53 0.74 0.39 0.45	Maxi Ins. 2.54 3.23 4.04 2.55 2.86	May. imum. <i>Frs.</i> 1883 1860	Min <i>Ins.</i> 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹)	Aver- age. 0.27 0.18 0.09 0.13 0.22	Maxi 2. 26 1. 93 2. 81 1. 15 2. 00	June. mum. Trs. 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00	Fra (*) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island 8. Presidio 9. Farallon Islands 1. Antioch 2. Martinez 3. East Brother Island 4. Brentwood	A ver- ige. 2.18 1.84 2.23 1.08 1.46 2.43 0.74 1.68 1.36	Maxi 5.27 7.55 4.41 3.65 8.02 2.03	April mum. 1860 1880 1880 1880 1884 1880	Mini Ins. 0. 20 0. 00 0. 70 0. 25 0. 96 0. 00 0. 39	Frs. 1877 (¹) 1882 1879 '76 '77 1883	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.39 0.45 0.26 0.27	Maxi 2.54 3.23 4.04 2.55 2.86 1.59 1.97	May. imum. 1883 1860 1883 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00	imum. Irrs. 1873 (¹)	A ver- Age . 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.23	Maxi <i>Ing.</i> 2. 26 1. 93 2. 81 1. 15 2. 00 0. 30 1. 51	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00 0.00 0.00 0.00	Fra (*) (1) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island 8. Presidio 9. Farallon Islands 9. Farallon Islands 1. Antioch 2. Martinez 3. East Brother Island 4. Brentwood 5. Clayton 6. Mount Diablo 7. Byron	A ver- age. 2.18 1.22 1.08 1.46 2.23 1.08 1.46 1.36 1.36 1.36 1.36 1.36 1.36	Maxi 5.27 7.55 4.41 3.65 8.02 2.03 4.18	April mum. <i>Yrs.</i> 1880 1880 1880 1880	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00	mum. Frs. 1877 (¹) 1882 1879 '76 '77	A ver- age. 1ns. 0.45 0.53 0.74 0.38 0.39 0.45 0.26	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59	May. imum. Frs. 1883 1860 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00	imum. 1873 (¹) · · · · · · · · · · · · ·	A ver- age. <i>Ins.</i> 0. 27 0. 18 0. 50 0. 13 0. 22 0. 11 0. 23 0. 22	Maxi 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62	June. mum. Frs. 1884 1884 1884 1884 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Fra (*) (1) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island. 8. Presidio 9. Farallon Islands 9. Point San José 1. Antioch 2. East Brother Island 4. Brentwood 5. Clayton 6. Mount Diablo 7. Byron 6. Camp Union	A ver- age. 7 ns. 2.18 1.84 2.23 1.08 1.46 2.43 1.08 1.46 2.43 1.68 1.36 0.22 1.86 0.04	Maxi 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13	A pril mum. <i>Frs.</i> 1880 1880 1880 1880 1884 1886 1886	Mini <i>Ins.</i> 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17	mum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883	A ver- age. Ins. 0.45 0.53 0.74 0.39 0.45 0.26 0.27 0.29 0.32	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38	May. imum. <i>Yrs.</i> 1883 1860 1883 1883 1883 1877 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹) (¹) (¹) (²) (²) 1876 (²)	A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.23 0.22 0.22 0.02	Maxi <i>Ing.</i> 2. 26 1. 93 2. 81 1. 15 2. 00 0. 30 1. 51	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00 0.00 0.00 0.00	Fri (*) (¹) (¹) (¹) (²) (²) (²)
Name and number of station. 7, Yerba Buena Island	A ver- ige. Ins. 2. 184 2. 23 1. 84 2. 23 1. 46 2. 43 0. 74 1. 68 1. 36 0. 22 1. 86 0. 64 2. 77 1. 86 0. 64 0. 74 0. 64 0. 74 0.	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02 2. 03 4. 18 0. 65 5. 13 	A pril mum. <i>Yrs.</i> 1880 1880 1880 1884 1880 1876 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18	Imum. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883 1881	A ver- age. Ins. 0.45 0.53 0.74 0.38 0.39 0.45 0.26 0.27 0.29 0.32 0.54 0.64	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06	May. imum. 1883 1860 1883 1883 1883 1883 1883 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Irrs. 1873 (¹) (¹) (¹) (²) 1876 (³) (¹)	Aver- age. Ins. 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.23 0.22 0.22 0.08 0.21	Maxi 7	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Fri (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7, Yerba Buena Island	A ver- age. Ins. 2.18 1.28 1.08 1.46 2.43 0.74 1.68 1.36 0.64 2.77 1.65 1.85	Maxi 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28	A pril mum. 1860 1860 1860 1880 1880 1884 1880 1886 1880	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00	imum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883 1881 (¹)	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.39 0.45 0.26 0.27 0.29 0.32 0.54 0.64 0.65	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84	May. imum. Frs. 1883 1863 1883 1883 1883 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹) (¹) (¹) (²) 1876 (²) 1876 (²) (¹	A ver- age. <i>Ins.</i> 0.27 0.18 0.20 0.13 0.22 0.13 0.22 0.23 0.22 0.22 0.08 0.21 0.15	Maxi 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fri (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7, Yerba Buena Island	A ver- ige. Ins. 2.18 1.24 2.28 1.84 1.46 1.46 1.36 1.36 1.36 1.36 1.36 1.36 1.82 1.82 0.97 1.65 1.82 0.97 1.82	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02 2. 03 4. 18 0. 65 5. 13 	A pril mum. <i>Yrs.</i> 1880 1880 1884 1880 1884 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18	Imum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883 1881 (¹) 1885	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.39 0.45 0.26 0.27 0.29 0.32 0.52 0.57	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62	May. imum. 1883 1860 1883 1883 1883 1883 1883 1883 1883 188	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹)	A ver- age. Ins. 0.27 0.18 0.29 0.13 0.22 0.13 0.22 0.13 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.2	Maxi <i>Ing.</i> 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.02	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fri (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7, Yerba Buena Island. 8, Presidio 9, Farallon Islands. 9, Farallon Islands. 1, Antioch. 2, Martines. 3, East Brother Island. 4, Brentwood. 5, Clayton 6, Mount Diablo. 7, Byron. 8, Camp Union. 9, Farmington. 1, Lathrop. 4, Elis and Traoy. 8, Berkeley.	A ver- age. 2.18 1.84 2.23 1.08 2.43 0.74 1.68 1.36 0.22 1.66 1.86 0.64 2.77 1.65 1.82 0.97 2.53	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28 5.16 3.02	A pril mum. 1860 1860 1880 1880 1884 1886 1886 1880 1880 1880 1880 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03	mum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883 1875 1883 1875 1883 1875 1883 1875 1883	A ver- age. <i>Ins.</i> 0.53 0.74 0.38 0.39 0.45 0.26 0.26 0.22 0.54 0.64 0.55 0.57 0.24 0.04	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84	May. imum. Frs. 1883 1863 1883 1883 1883 1883 1883	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹) (¹) (¹) (²) 1876 (²) 1876 (²) (¹	A ver- age. <i>Ins.</i> 0.27 0.18 0.20 0.13 0.22 0.13 0.22 0.23 0.22 0.22 0.08 0.21 0.15	Maxi <i>Ing.</i> 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.02	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fri (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Verba Buena Island	A ver- age. 2.18 1.84 2.23 1.08 2.43 0.74 1.68 1.36 0.22 1.66 1.86 0.64 2.77 1.65 1.82 0.97 2.53	Maxi Ins. 5.27 7.55 4.41 3.65 2.03 4.18 0.65 5.13 7.31 6.28 5.16 3.02 3.46	A pril mum. 1880 1880 1880 1880 1884 1880 1886 1880 1880 1880 1880 1880	Mini Jns. 0.20 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.03	Imum. Frs. 1877 (¹) 1882 1879 76 '77 1883 1875 1883 1875 1883 1875 1883 1875 1883 1875 1883	A ver- age. <i>Ins.</i> 0.53 0.74 0.39 0.45 0.26 0.27 0.29 0.32 0.54 0.64 0.55 0.57 0.24 0.64	Maxi Ins. 2.54 3.23 4.04 2.55 2.85 1.59 1.97 0.45 2.38 3.06 4.84 3.66 1.82 1.82 1.82 1.50	May. imum. 1883 1860 1883 1883 1883 1883 1883 1883 1883 188	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Frs. 1873 (¹)	A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.23 0.22 0.08 0.21 0.15 0.15 0.15 0.44	Maxi <i>Ing.</i> 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.02	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island 8. Presidio 9. Farallon Islands 1. Antioch 2. Martinez 3. East Brother Island 4. Brentwood 5. Clayton 8. Camp Union 9. Farmington 0. Stockton 1. Lathrop 1. Lathrop 4. Berkeley 4. Berkeley 4. Steakton 1. Jathrop 5. Livzermore	A ver- age. 2.18 1.84 1.84 1.84 1.88 1.46 2.23 1.08 1.36 0.74 1.68 1.36 0.82 1.36 0.84 1.36 1.82 1.08 1.30 0.97 2.53 2.38 1.40	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 6.28 5.16 3.02 5.16 3.02 5.46 6.51	A pril mum. Frs. 1880 1880 1880 1880 1880 1880 1880 188	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.00	mum. Fre. 1877 (¹) 1882 1875 1875 1883 1875 1883 1875 1883 1875 1883 1875 1883 1875 1875 1875 1875 1877 1883 1877 1883 1875 1877 1883 1877 1877 1883 1875 1877 1883 1875 1877 1875 1877 1875 1877 1777	A ver- age. 7ns. 0.45 0.53 0.74 0.38 0.26 0.27 0.29 0.32 0.54 0.55 0.57 0.24 0.66 0.67 0.36	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 3.50 2.73	May. imum. Irrs. 1883 1860 1883 1885	Min <i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Irrs. 1873 (¹) ⁽¹) ⁽²) ⁽²) ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹	A ver- age. Jns. 0.27 0.18 0.50 0.09 0.13 0.22 0.21 0.22 0.22 0.22 0.22 0.23 0.21 0.13 0.22 0.22 0.22 0.22 0.22 0.22 0.14 0.15 0.14 0.16	Maxi 7ng. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.02 2.03 3.03 1.73	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fri (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Name and number of station. 7. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02 2. 03 4. 18 0. 65 5. 13 7. 31 6. 28 5. 16 3. 02 5. 13 7. 31 6. 28 5. 16 3. 02 5. 46 6. 51 8. 50	A pril mum. Yrs. 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.03 0.00 0.31 0.03	Imum. Frs. 1877 (¹) 1882 1879 176 1875 1883 1881 (¹) 1885 1871 1875 1875 1875 1875 1875	A ver- age. 7 ns. 0.45 0.53 0.74 0.39 0.45 0.27 0.29 0.32 0.54 0.64 0.64 0.67 0.24 0.064 0.67 0.36 0.58	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.73	May. Imum. Frs. 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883	Min Jns. 0.00	imum. Irrs. 1873 (¹) (¹) (¹) (¹) (²) 1876 (²) (¹	A ver- age. Ins. 0.18 0.50 0.13 0.22 0.11 0.23 0.22 0.23 0.22 0.38 0.21 0.15 0.14 0.15 0.44 0.26	Maxi 7ne. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.02 2.05 3.03 1.78 1.78	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	mum Fr.(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 6.28 5.16 3.02 5.16 3.02 5.46 6.51	A pril mum. Frs. 1880 1880 1880 1880 1880 1880 1880 188	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.00	Imum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1883 1883 1883 1883 1881 (¹) 1885 1878 1875 1878 1875 1878 1877 1878 1877 1878 1877 1877 1878 1877	A ver- age. Ins. 0.45 0.53 0.74 0.38 0.38 0.38 0.39 0.45 0.26 0.22 0.54 0.55 0.57 0.54 0.64 0.65 0.57 0.24 0.66 0.58 0.36	Maxi Ins. 2.54 3.23 4.04 1.55 1.59 1.97 1.97 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.73 2.79 2.99	May. Imum. Irrs. 1883 1860 1883	Min <i>Ins.</i> 0.00	imum. Frs. 1873 (¹) (¹) ⁽¹) ⁽²) ⁽²) ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽	A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.23 0.22 0.08 0.21 0.15 0.14 0.15 0.14 0.16 0.23	Maxi <i>Ing.</i> 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.62 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.73 1.73 1.73 1.78 2.69	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (†) (†) (†) (†) (†) (†) (†) (†) (†) (†)
Name and number of station. 7. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 5.13 7.31 6.28 5.13 7.31 6.28 5.16 3.02 5.13 7.31 6.51 8.50 5.87 8.50 5.87 8.50	A pril mum. Frs. 1880 1800 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.10 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.17 0.18 0.00 0.00 0.00 0.17 0.18 0.00 0.00 0.00 0.17 0.18 0.00 0.00 0.00 0.17 0.18 0.00 0.00 0.00 0.00 0.17 0.00	Imum. Frs. 1877 (¹) 1882 1879 176 1875 1883 1881 (¹) 1885 1871 1875 1875 1875 1875 1875	A ver- age. <i>J ns.</i> 0.45 0.53 0.74 0.39 0.45 0.27 0.54 0.27 0.54 0.64 0.65 0.57 0.64 0.65 0.57 0.54 0.64 0.55 0.57 0.54 0.55 0.55 0.55 0.55 0.55 0.55 0.55	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.73	May. Imum. Frs. 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883	Min Jns. 0.00	imum. Irrs. 1873 (¹) (¹) (¹) (¹) (²) 1876 (²) (¹	Image: Image: 0.27 0.18 0.027 0.18 0.22 0.11 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.14 0.15 0.46 0.20 0.20 0.20	Maxi 7ns. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.02 2.03 3.03 1.78 2.69 0.00	June. Trs. 1884	Mini Ine. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
Name and number of station. 7. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28 5.16 3.02 8.50 5.87 0.78 7.74	A pril mum. Yrs. 1880 1880 1880 1880 1880 1886 1880 1800	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.00 0.31 0.00 0.00 0.00 0.31 0.00 0.00	mum. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1875 1883 1875 1883 1875 18	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.32 0.54 0.65 0.55 0.57 0.24 0.66 0.55 0.57 0.24 0.66 0.58 0.59 0.54 0.55 0.56 0.56 0.56 0.56 0.56 0.56 0.55 0.56 0.55 0.55	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 2.73 2.73 2.73 2.73 2.99 0.12 3.46	May. imum. Yrs. 1883 1878 1877	Min <i>Ine.</i> 0.000 0.00	imum. Irrs. 1873 (¹) ⁽¹) ⁽¹) ⁽²) ⁽²) ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹	A ver- age. 0.27 0.18 0.00 0.13 0.22 0.11 0.23 0.22 0.22 0.08 0.22 0.22 0.08 0.22 0.22	Maxi 7ng. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.52 1.05 1.02 2.03 1.73 1.78 2.69 0.00 1.45	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
Name and number of station. 37. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02 2. 03 4. 18 0. 65 5. 13 7. 31 6. 28 5. 16 3. 02 5. 13 7. 31 6. 28 5. 16 3. 02 5. 87 0. 78 7. 74 4. 78	A pril mum. Frs. 1880 1880 1880 1880 1880 1880 1880 188	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.03 1.00 0.00 0.316 1.08	Frs. 1877 (¹) 1882 1879 "76 '77 1883 1883 1883 1883 1883 1885 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1879 1883 1883 1885 1882 1879 1879 1883 1875 1883 1875 1875 1875 1883 1875 1875 1875 1883 1875 1875 1883 1875 1875 1875 1883 1875 1883 1875 1875 1875 1883 1875 1883 1875 1883 1875 1875 1883 1875 1883 1875 1875 1875 1875 1875 1875 1875 1877 1883 1875 1883 1875 1875 1877 1883 1875 1875 1875 1875 1875 1875 1883 1875 18	A ver- age. <i>J.ns.</i> 0.45 0.53 0.74 0.38 0.45 0.29 0.32 0.54 0.29 0.32 0.54 0.64 0.67 0.29 0.32 0.54 0.64 0.57 0.64 0.57 0.58 0.59 0.58 0.59 0.58 0.59 0.58 0.58 0.58 0.58 0.58 0.58 0.58 0.58	Maxi Ine. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 1.82 1.55 0.45 2.38 3.06 4.84 3.50 2.73 2.75	May. Frs. 1883 18 18 18 18 18 18 18 18 18 18 18 18 18 1	Min Jnz. 0.00	imum. Frs. 1873 (¹) (A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.13 0.22 0.22 0.22 0.23 0.22 0.23 0.23 0.2	Maxi 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.73 1.73 1.73 1.73 1.73 1.75 2.69 0.07 9.00 1.45 1.05 1.73 1.73 1.73 1.75 1.05 1.75 1.75 1.75 1.05 1.75 1.05 1.75 1.05 1.75 1.75 1.75 1.75 1.75 1.75 1.05 1.75 1	June. Trs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Yerba Buena Island	A ver- age. 2.18 1.84 1.84 1.84 1.08 1.46 0.74 1.68 1.36 0.64 2.77 1.68 1.82 0.64 2.53 2.38 1.49 0.64 1.82 0.64 1.82 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.64 0.52 0.53 0.53 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.55	Maxi 7.27 7.55 4.41 3.65 8.02 2.03 4.18 5.13 7.31 6.28 5.13 7.31 6.28 5.16 3.02 5.13 7.31 6.28 5.16 3.02 5.07 8.7,74 4.41 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.16 8.02 7.31 6.28 5.17 7.44 8.02 7.31 6.28 7.74 7.75	A pril mum. Frs. 1880 1880 1880 1880 1884 1880 1880 1880	Mini <i>Ins.</i> 0.20 0.00 0.70 0.25 0.96 0.00 0.30 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.19 0.00	Imum. Frs. 1877 (') 1882 1875 1875 1875 1883 1883 1881 (') 1885 1877 1875 1877 1875 1877 1875 1877 1875 1877 1877 1877 1875 1877 1878 1877 1777 1777 1777 1777 1777 1777 1777 1777 1777 1	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.39 0.45 0.27 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.5	Maxi <i>Ins.</i> 2.54 3.23 4.04 2.55 2.86 1.59 1.97 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.99 0.12 3.46 1.290 1.293 1.295 1.205 2.38 2.38 2.38 2.38 2.38 2.55 2.38 2.38 2.38 2.38 2.38 2.38 2.38 2.38 2.38 2.86 2.38 2.86 2.38 2.38 2.38 2.86 2.38 2.39 2.38 2.39 2.38 2.39	May. Imum. Irrs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jns. 0.00	imum. Frs. 1873 (¹) (Image: Aver-age: age: 0.27 0.18 0.50 0.09 0.32 0.11 0.22 0.11 0.22 0.11 0.22 0.11 0.22 0.22 0.33 0.22 0.44 0.46 0.23 0.44 0.43 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.74 0.74	Maxi <i>I</i> ¹ <i>n</i> . <i>e</i> . 2. 26 1. 93 2. 81 1. 15 2. 00 0. 30 1. 51 0. 62 1. 54 1. 32 1. 05 1. 05 1. 05 1. 05 1. 05 1. 05 1. 73 1. 78 2. 60 0. 45 0. 00 1. 45 0. 79 1. 05	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 7. Yerba Buena Island	A ver- age. Ins. 2.18 1.46 2.23 1.46 2.43 1.46 1.68 1.36 1.46 1.65 1.86 2.77 1.86 2.77 1.86 2.77 1.65 2.38 1.49 2.38 1.49 2.38 1.49 2.38 1.49 2.38 1.49 2.38 1.49 2.43 1.86 1.88 1.86 1.87 1.86 1.87 1.86 1.87 1.86 1.87	Maxi 5. 27 7. 55 4. 41 3. 65 8. 02 2. 03 4. 18 0. 65 5. 13 7. 31 6. 28 5. 16 3. 02 5. 13 7. 31 6. 28 5. 16 3. 02 5. 87 0. 78 7. 74 4. 78	A pril mum. Frs. 1860 1860 1860 1880 1880 1880 1880 1880	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.03 1.00 0.00 0.316 1.08	Im um. Fre. 1877 (¹) 1882 1879 '76 '77 1883 1883 1881 (¹) 1885 1877 1875 1875 1875 1875 1875 1875 1875 1875 1875 1877 1875 1877 1877 1875 1877 1777	A ver- age. 7 ns. 0.45 0.53 0.74 0.39 0.45 0.27 0.29 0.32 0.54 0.64 0.57 0.26 0.56 0.57 0.26 0.56 0.57 0.54 0.57 0.56 0.57 0.29 0.35 0.57 0.54 0.57 0.54 0.57 0.55 0.55	Maxi Ine. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 1.82 1.55 0.45 2.38 3.06 4.84 3.50 2.73 2.75	May. Frs. 1883 18 18 18 18 18 18 18 18 18 18 18 18 18 1	Min 7n.e. 0.00	imum. Irrs. 1873 (¹) (¹) '82'84 (²) 1876 (³) (¹) (²) 1876 (³) (¹	Image: Image: 0.27 0.18 0.09 0.30 0.22 0.11 0.23 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.23 0.46 0.20 0.40 0.20 0.40 0.20 0.40 0.24 0.74 0.11	Maxi 7ns. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.02 2.03 1.78 2.63 1.78 2.63 1.78 2.65 1.02 2.03 1.78 2.05 1.05 0.99	June. Trs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr (* (* (* (* (* (* (* (* (* (* (* (* (*
Name and number of station. 37. Yerba Buena Island	A ver- ige. Ins. 2.188 1.84 2.23 1.088 1.46 2.43 1.08 1.46 2.43 1.08 1.36 0.74 1.65 1.82 2.53 1.45 2.53 1.45 2.489 2.40 0.39 5.33 1.15 2.484 1.142 1.22 1.25 1.55 1.25 1.55 1.25 1.55 1.25 1.55 1.25 1.55	Maxi <i>Ine.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28 5.16 3.02 8.50 5.87 8.50 5.87 8.50 8.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.31 6.28 5.16 3.02 7.74 4.90 4.11 7.31 6.50 5.87 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.74 4.90 4.10 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.31 6.50 5.73 7.74 4.90 5.90 5.9	A pril mum. Frs. 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.00 0.31 0.00 0.31 0.00 0.00 1.00 0.00 0.00 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00	mum. Frs. 1877 (') 1882 1877 1883 1875 1883 (') 1885 1883 (') 1875 1875 1875 1875 1873 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 187	A ver- age. 7ns. 0.45 0.53 0.74 0.38 0.39 0.45 0.27 0.24 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.55 0.54 0.55 0.55 0.55 0.55 0.55 0.5	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.622 1.82 3.50 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.54 3.46 1.82	May. Imum. Ire. 1883 1860 1883 1885	Min <i>Jns.</i> 0.000 0.00	imum. Irrs. 1873 (¹) (¹) '82' 84 (²) 1876 (³) (¹) '85' 87 1887 (¹) 1879 1884 (²) (¹) (²) (²) (¹) (²) (¹	Image: Image: Image: Image: 0.27 0.18 0.027 0.18 0.20 0.11 0.23 0.22 0.11 0.23 0.22 0.11 0.22 0.12 0.22 0.22 0.08 0.21 0.15 0.14 0.15 0.46 0.23 0.00 0.40 0.23 0.07 0.15 0.14 0.15 0.40 0.23 0.07 0.11 0.17 0.07	Maxi <i>I</i> ¹ <i>n</i> . <i>e</i> . 2. 26 1. 93 2. 81 1. 15 2. 00 0. 30 1. 51 0. 62 1. 54 1. 32 1. 05 1. 05 1. 05 1. 05 1. 05 1. 05 1. 73 1. 78 2. 60 0. 45 0. 00 1. 45 0. 79 1. 05	June. mum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Verba Buena Island	A ver- age. Ins. 2.18 1.08 1.243 1.08 1.48 2.43 1.08 1.36 0.74 1.68 1.36 0.64 2.73 1.85 1.86 0.64 2.73 1.65 2.53 1.69 5.33 1.15 2.88 1.49 2.73 1.87 1.57 1.87	Maxi <i>Ins.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.58 7.31 6.51 8.02 2.03 4.18 5.16 5.17 7.15 7.15 7.15 7.15 7.15 7.15 7.15 7.15 7.31 6.28 5.16 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.55 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.51 8.02 7.31 6.55 8.70 7.4 7.4 4.78 4.90 4.18 7.74 7.77 7.77 7.77 7.77 7.74 7.77 7.77 7.74 7.77 7.77 7.77 7.74 7.77 7.77 7.77 7.74 7.77 7.77 7.74 7.77 7.74 7.77 7.77 7.74 7.77 7.77 7.74 7.77 7.74 7.74 7.77 7.77 7.74 7.77 7.77 7.77 7.74 7.77 7.77 7.74 7.77 7.74 7.77 7.77 7.74 7.77	A pril mum. Frs. 1880 1880 1880 1880 1880 1880 1880 188	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.31 0.00 0.00 0.31 0.00 0.00 0.31 0.00 0.00 0.31 0.00 0.00 0.31 0.00 0.00 0.00 0.00 0.31 0.00	Im um. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1881 (¹) 1883 1881 (¹) 1885 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1883 1875 1875 1875 1875 1875 1883 1875 1875 1875 1875 1875 1883 1875 1878 1875 1875 1875 1875 1875 1878 1875 1878 1875 1877 1875 1878 1873 1875 1875 1878 1875 1878 1875 1878 1875 1878 1875 1878 1875 1878 1875 1878 1875 1878 1875 1878	A ver- age. <i>J.ns.</i> 0.45 0.53 0.74 0.38 0.62 0.57 0.22 0.54 0.64 0.65 0.66 0.57 0.64 0.05 0.57 0.64 0.05 0.57 0.64 0.05 0.57 0.33 0.64 0.05 0.12 0.05 0.58 0.59 0.58 0.57 0.65 0.57 0.65 0.57 0.65 0.55 0.55 0.55 0.55 0.55 0.55 0.55	Maxi Ine. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.60 2.73 2.75 1.97 2.73 2.99 0.12 2.56 1.97 2.50 1.97 2.50 1.97 2.50 1.97 2.73 2.99 1.75 2.50 1.75 1.55 1.75	May. Frs. 1883 1860 1883 1885	Min Jnz. 0.00	imum. Irrs. 1873 (') (') (') '82'84 (') 1876 (') (') '85'87 1887 (') 1877 (') 1877 (') (') (') (') (') (') (') (')	A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.13 0.22 0.22 0.21 0.12 0.22 0.01 0.12 0.22 0.02 0.21 0.12 0.22 0.01 0.12 0.22 0.02 0.21 0.12 0.22 0.02 0.22 0.02 0.22 0.2	Maxi <i>I</i> ₁₁₄ . 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.54 1.32 1.05 1.99 1.99 1.99 1.99 1.99 1.99 1.99	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr (* (* (* (* (* (* (* (* (* (* (* (* (*
Name and number of station. 37. Yerba Buena Island	A ver- age. 2.18 1.84 2.23 1.08 1.46 2.43 1.08 1.46 2.43 1.08 1.46 2.43 1.82 2.53 2.53 1.49 2.53 1.55 2.19 1.41 1.55 2.19 1.41 1.55 2.53 1.49 1.41 1.55 2.53 1.49 1.41 1.55 2.53 1.49 1.41 1.55 2.53 1.49 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.55 2.53 1.40 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.40 1.55 2.53 1.40 1.55 2.53 1.55 2.53 1.55 2.53 1.55 2.55 1.55 2.55 1.55 2.55 1.55 2.55 1.55 2.55 1.55 2.55 1.55 2.55	Maxi 7.27 7.55 4.41 3.65 8.02 2.03 4.18 5.13 0.65 5.13 1.62 8.51 8.50 5.87 0.78 7.74 8.50 5.87 0.78 7.74 4.90 4.11 4.66 4.99 2.77 8.70 2.77 8.70 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.46 1.41 1.46 1.46 1.47 1.46 1	A pril mum. Frs. 1880	Mini 7ns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.17 0.18 0.00	Imum. Frs. 1877 (') 1882 1877 1873 1875 1875 1883 1883 1881 (') 1885 1875 1875 1875 1875 1875 1877 1873 1873 1873 1873 1873 1873 1875 1877 1875 1877 1875 1877 1878 1877 1875 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1875 1877 1875 1877 1875 1877 1875 1877 1877 1875 1877 1875 1877 1875 1877 1875 1877 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1877 1875 1778 1875 1877 1875 1778 1875 1778 1875 1778 1875 1778 1875 1778 1875 1778 1875 1778 1875 1778 1875 175 175 175 175 175 175 175 1	A ver- age. <i>Ins.</i> 0.45 0.53 0.74 0.38 0.39 0.45 0.27 0.52 0.52 0.54 0.27 0.32 0.54 0.27 0.32 0.54 0.27 0.32 0.54 0.65 0.55 0.56 0.55 0.54 0.55 0.56 0.55 0.54 0.55 0.55	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1	May. Imum. Irrs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jns. 0.00	imum. Frs. 1873 (¹) (¹) ⁽¹) ⁽²) ⁽²) ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽	Image: A ver- age: 0.27 0.18 0.09 0.30 0.22 0.11 0.23 0.22 0.80 0.22 0.81 0.22 0.82 0.21 0.22 0.83 0.21 0.44 0.43 0.44 0.43 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.44 0.44 0.44 0.44 0.44 0.44	Maxi <i>I</i> *** 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.62 1.54 1.32 1.05	June. mum. Trs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Verba Buena Island	A ver- a ge. Ins. 2.18 1.44 2.23 1.48 2.43 1.48 1.88 1.48 1.88 1.48 1.88 1.49 1.49 1.83 1.15 2.28 1.15 2.18 1.15 2.18 1.55 2.19 4.07 1.65 2.19 1.65 1.55 2.19 1.65 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.85 1.15 1.55 1.15 1.55 1.1	Maxi <i>Ins.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 0.65 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.51 8.50 2.03 4.18 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.16 7.31 6.28 5.16 7.31 6.28 7.74 7.74 7.74 7.75 7.75 7.75 7.75 7.75 7.75 7.75 7.75 7.31 7.74 7.74 7.77 8.70 7.77 7.79	A pril mum. Frs. 1880	Mini Jns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 1.00 0.03 1.00 0.00 1.00 0.31 1.08 0.00 0.00 0.10 0.10 0.00 0.00 0.31 0.00 0.00	Im um. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1881 (¹) 1885 1875 1883 1875 1875 1875 1875 1875 1875 1883 1875 1877 1875 1877 1873 1875 1877 1875 1877 1873 1873 1873 1875 1877 1873 1873 1873 1875 1877 1873 1873 1873 1873 1875 1877 1873 1873 1873 1875 1877 1877 1873 1877	A ver- age. 7 ns. 0.45 0.53 0.74 0.39 0.45 0.27 0.29 0.32 0.54 0.64 0.57 0.26 0.56 0.57 0.26 0.56 0.57 0.26 0.56 0.57 0.26 0.55 0.56 0.57 0.26 0.55 0.57 0.29 0.32 0.55 0.57 0.29 0.35 0.57 0.29 0.35 0.57 0.56 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.57 0.55 0.55	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.75 2.55 2.75 2.55 2.75 2.55 2.75 2.55 2.73 2.99 0.12 2.55 2.56 2.55 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.55	May. Frs. 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jnz. 0.00	imum. Irrs. 1873 (') (') '82' 84 (2) 1876 (7) (') (') (') (') (') (') (') ('	A ver- age. <i>Ins.</i> 0.27 0.18 0.50 0.09 0.13 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.2	Maxi <i>Ing.</i> 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.54 1.32 1.05 1.05 1.05 1.02 2.03 3.03 1.78 2.69 0.09 1.93 1.64 2.91 3.95	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 8. Presidio 9. Farallon Islands	A ver- age. Ins. 2.18 1.44 2.23 1.46 2.43 1.46 2.43 1.68 1.36 0.74 1.68 1.36 0.74 1.65 2.43 0.97 2.53 2.88 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.55 2.18 1.49 1.55 2.18 1.49 1.55 2.18 1.55 2.18 1.55	Maxi 7.27 7.55 4.41 3.65 8.02 2.03 4.18 5.13 0.65 5.13 1.62 8.51 8.50 5.87 0.78 7.74 8.50 5.87 0.78 7.74 4.90 4.11 4.66 4.99 2.77 8.70 2.77 8.70 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.41 1.46 1.46 1.41 1.46 1.46 1.47 1.46 1	A pril mum. Frs. 1850	Mini 7ns. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.17 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.00 0.18 0.00	Imum. Frs. 1877 (¹) 1882 1879 176 77 1883 1875 1883 1875 1871 1875 1875 1875 1875 1875 1877 1873 1883 1877 1883 1877 1883 1877 1877 1883 1877 1883 1877 1877 1883 1877 1877 1883 1877 1883 1877 1883 1877 1883 1877 1883 1877 1883 1877 1883 1877 1877 1878 1877 18	A verrage. 7 ns. 0.45 0.53 0.53 0.26 0.27 0.29 0.32 0.54 0.64 0.56 0.56 0.57 0.24 0.54 0.57 0.24 0.54 0.57 0.24 0.55 0.27 0.29 0.32 0.54 0.55 0.27 0.29 0.32 0.54 0.55 0.27 0.29 0.32 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.55 0.27 0.29 0.35 0.55 0.55 0.55 0.55 0.27 0.29 0.35 0.55	Maxi 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.60 2.73 2.73 2.99 0.12 3.46 0.31 2.90 2.24 1.55 2.92 4.19 3.49	May. Imum. Irrs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jns. 0.00	imum. Frs. 1873 (¹) (¹) ⁽¹) ⁽²) ⁽²) ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽	Aver-age. Ins. 0.27 0.18 0.50 0.09 0.11 0.22 0.11 0.22 0.11 0.22 0.11 0.22 0.15 0.15 0.15 0.15 0.21 0.15 0.44 0.64 0.23 0.00 0.44 0.16 0.21 0.23 0.00 0.44 0.24 0.24 0.27 0.24 0.35	Maxi <i>I</i> ₁₁₄ . 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.62 1.05 1.05 1.02 2.03 1.75 2.09 0.09 1.45 3.93 1.94 1.93 1.94 1.93 1.94 1.95 1.93 1.94 1.93 1.94 1.94 1.95 1.94 1.93 1.94	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Verba Buena Island	A ver- a ge. Ins. 2.18 1.0	Maxi <i>Ine.</i> 5.27 7.55 4.14 3.65 8.02 2.03 4.18 5.13 7.31 6.28 5.13 7.31 6.28 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 5.17 7.31 6.28 5.16 7.31 6.28 5.17 7.31 6.28 5.17 7.31 6.28 5.17 7.31 6.28 5.17 7.31 6.28 5.17 7.31 6.28 5.17 7.31 6.28 5.17 7.78 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70 7.79 8.70	A pril mum. Frs. 1850 1880 1880 1880 1880 1880 1880 1880	Mini Ins. 0.20 0.00 0.70 0.25 0.96 0.00 0.39 0.00 0.17 0.18 0.00 0.31 0.03 0.00 0.00 0.01 1.08 0.00 0.00 0.00 0.01 0.00 0.01 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00 0.01 0.00	Im um. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1881 (¹) 1885 1875 1883 1883 1883 1882 1883 1882 1883 1882 1877	A ver- age. J. J. 45 0. 45 0. 63 0. 74 0. 38 0. 44 0. 65 0. 64 0. 65 0. 64 0. 66 0. 56 0. 67 0. 24 0. 64 0. 12 0. 54 0. 12 0. 54 0. 12 0. 54 0. 12 0. 54 0. 12 0. 54 0. 64 0. 12 0. 55 0. 12 0. 54 0. 12 0. 54 0. 55 0. 64 0. 12 0.	Maxi Ins. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.62 1.82 3.50 2.73 2.75 2.55 2.75 2.55 2.75 2.55 2.75 2.75 2.75 2.99 0.12 2.55 2.55 2.55 2.75 2.55 2.75 2.56 2.55 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.57 2.56 2.55	May. Frs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jnz. 0.00	imum. Irrs. 1873 (') (') '82' 84 (2) 1876 (7) (') (') (') (') (') (') (') ('	Image: Image: Image: Image: 0.27 0.18 0.027 0.18 0.20 0.11 0.23 0.22 0.11 0.23 0.22 0.11 0.22 0.12 0.22 0.22 0.08 0.21 0.15 0.14 0.15 0.40 0.23 0.00 0.40 0.23 0.07 0.11 0.17 0.24 0.51 0.24	Maxi 7.1.9. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.05 1.02 2.03 1.73 1.73 1.78 2.69 0.00 1.45 0.99 1.90 1.93 1.64 2.91 3.29	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Yerba Buena Island	A ver- ige. Ins. 2.18 1.84 2.23 1.08 1.46 2.43 1.08 1.46 2.43 1.08 1.46 2.43 1.08 1.36 0.74 1.36 0.64 1.36 0.64 1.82 1.82 1.82 1.82 1.82 1.82 1.82 1.82 1.55 1.182 2.40 1.55 2.84 1.14 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.55 1.5	Maxi 7.27 7.55 4.41 3.65 8.02 2.03 4.18 5.13 0.65 5.13 3.02 3.06 5.13 3.02 3.02 5.13 4.18 5.16 3.02 5.13 5.16 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.17 5.16 5.17 5 5.17 5	A pril mum. Frs. 1880 1880 1880 1880 1880 1880 1880 188	Mini 7ns. 0.20 0.00 0.70 0.25 0.96 0.00 0.30 0.00 0.31 0.03 0.00 0.31 0.03 0.00 0.31 0.03 1.08 0.00 0.00 0.00 1.00 0.00 0.17 1.08 0.00 0.00 0.00 0.00 0.17 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.00 0.18 0.00	Imum. Frs. 1877 (') 1882 1877 1873 1875 1875 1883 1883 1881 (') 1885 1875 1875 1875 1875 1875 1875 1877 1877 1873 1883 1883 1883 1887 1877 1	A verrage. <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>age.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>Ins.</i> <i>I</i>	Maxi Ins. 2.54 3.23 4.04 .55 2.86 1.59 1.97 0.45 2.38 .06 4.84 3.62 .73 2.73 2.73 2.73 2.73 2.73 2.73 2.73 2.99 0.12 8.46 .55 2.96 1.97 1.98 1.99 1.75 1.99 1.75 1.99 1.75 1.99 1.75 1.92 1.92 1.92 1.92 1.92 1.92 1.75 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.75 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.75 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.75 1.92 1.94 1.92 1.94 1.94 1.95 1.95 1.95 1.95	May. Imum. Irrs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jns. 0.00	imum. Irrs. 1873 (¹) (¹) ² 82' 84 (²) 1876 (²) ¹ 877 1877 ¹ 85' 87 ¹ 879 1884 ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ ⁽¹⁾ ⁽²⁾ ⁽¹⁾ 	Image: A ver- age: 0.27 0.18 0.027 0.130 0.22 0.11 0.23 0.22 0.88 0.21 0.22 0.88 0.21 0.44 0.15 0.40 0.23 0.00 0.40 0.23 0.00 0.40 0.23 0.00 0.44 0.25 0.27 0.28 0.29 0.24 0.35 0.44 0.35 0.44 0.40	Maxi 7.46. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 1.05	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fr. (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
Name and number of station. 37. Verba Buena Island	A ver- ige. Ins. 2.18 1.84 2.23 1.08 1.46 2.43 1.08 1.46 2.43 1.08 1.46 2.43 1.08 1.36 0.74 1.36 0.64 1.36 0.64 1.82 1.82 1.82 1.82 1.82 1.82 1.82 1.82 1.55 1.182 2.40 1.55 2.84 1.14 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.15 2.23 3.31 1.55 2.33 1.55 1.5	Maxi <i>Ins.</i> 5.27 7.55 4.41 3.65 8.02 2.03 4.18 .18 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.13 7.31 6.28 5.16 5.17 7.31 6.28 5.16 7.31 6.28 5.16 7.74 7.74 7.74 7.74 7.74 7.74 7.76 6.44 1.78 4.90 4.11 6.65 5.77 1.77 6.28 5.16 5.17 7.74 7.74 7.74 7.74 7.74 7.74 7.70 7.70 7.74 7.70 7.74 7.70 7.70 7.74 7.70 7.70 7.74 7.70 7.70 7.70 7.70 7.74 7.70 7.70 7.70 7.74 7.70 7.70 7.70 7.70 7.74 7.70 7.70 7.70 7.74 7.70 7.70 7.70 7.70 7.74 7.70 7.70 7.70 7.70 7.70 7.74 7.70	A pril mum. Frs. 1850 1880 1880 1880 1880 1880 1880 1880	Mini 7ns. 0.20 0.00 0.70 0.25 0.96 0.00 0.30 0.00 0.31 0.03 0.00 0.31 0.03 0.00 0.31 0.03 1.08 0.00 0.00 0.00 1.00 0.00 0.17 1.08 0.00 0.00 0.00 0.00 0.17 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.18 0.00 0.00 0.00 0.00 0.18 0.00	Im um. Frs. 1877 (¹) 1882 1879 '76 '77 1883 1881 (¹) 1885 1881 1875 1877 1875 1877 1876 1876 1876 1876 1876 1876 1876 1877	A ver- age. 7 ns. 0.45 0.53 0.74 0.38 0.45 0.27 0.29 0.32 0.54 0.57 0.26 0.57 0.26 0.56 0.57 0.27 0.33 0.45 0.27 0.29 0.32 0.54 0.57 0.56 0.57 0.26 0.57 0.29 0.33 0.55 0.56 0.57 0.29 0.35 0.57 0.29 0.35 0.56 0.57 0.29 0.35 0.56 0.57 0.29 0.35 0.56 0.57 0.29 0.35 0.56 0.57 0.57 0.56 0.57 0.57 0.57 0.56 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Maxi Ine. 2.54 3.23 4.04 2.55 2.86 1.59 1.97 0.45 2.38 3.06 4.84 3.60 2.73 2.75 1.97 2.99 0.12 2.56 2.99 1.97 2.46 2.55 2.99 1.97 2.56 2.99 2.46 2.45 2.56 2.92 4.19 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.49 0.245 2.45 1	May. Frs. 1883 1860 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885	Min Jnz. 0.00	imum. Frs. 1873 (¹) (Aver-age. Ins. 0.27 0.18 0.50 0.09 0.13 0.22 0.11 0.22 0.13 0.22 0.13 0.22 0.14 0.22 0.32 0.44 0.60 0.40 0.44 0.40 0.44 0.40 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.51 0.22 0.26 0.26	Maxi <i>I</i> 714. 2.26 1.93 2.81 1.15 2.00 0.30 1.51 0.62 1.54 1.32 1.05 1.55 1.5	June. Trs. 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Fra (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)

(1) Frequently.

(2) Generally.

Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

-			July.		l			August	.			8	eptemb	er.	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	num.	Aver- age.	Maxi	mum.	Mini	mum.	Aver-	Maxi	mum.	Mini	mum.
	Ins.	In.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ine.	Ins.	Yrs.	Ins.	Yrs.
37. Yerba Buena Island	0. 01	0.22	1877	0.00	(*)	(T)	0.03		0.00	(2)	0. 23	1.03		0.00	
38, Presidio	0.02	0.20	1586	0.00	(*)	0.00	0.04	1864	0.00	(*)	0.11	1.40	1887	0.00	(1)
9. Farallon Islands	0.00	0.00		0.00		0.00	0.00		0.00		0.18	0.35	• • • •	0. 00	
0. Point San José	(T)					0.00			· · · • •		0.03		• • • • • • • • •		
1. Antioch	(T)	(T)	1885	0.00	(²)	(T)	(T)	1884	0.00	(*)	0.07	0.41	1887	0. 0 0	(<u>)</u>
2. Martinez	0.01	0. O7	1886	0.00	(*)	0.00	0.00		0.00		0.11	0.56	1883	0. 00	- ([®])
3. East Brother Island	0.00	0. 00		0.00		0.00	0.00		0.00		0.04	0.30	1883	0.00	(*)
4. Brentwood	0.00	0.00		0.00		0.00	0.00		0.00		0.06	0.50	1887	0.00	(?)
95. Clayton †			. 					• • • • • • • • • •							
6. Mount Diablo	0.00	0.00	· • • • •	0.00	<i>.</i>	0.0	0.00	• • • • •	0.00		. 0. (0	0.00		0. CU	
97. Byron	0.00	0.00		0.00		0.00	0.00	••••	0.00		(T)	0.02	1882	0.00	(*)
98. Camp Union	0.45		. . .			0.00									
99, Farmington	0,00	0.00		0.00	. .	(T)	(T)		0.00	(*)	0.16	0.76	1883	0.00	(¹)
00, Stockton	0.01	0.10	1856	0.00	(2)	0.00	Ô. CÓ		0.00		. 0, 05	0. 50	1882	0.00	(*)
01, Lathrop	(T)	0.02	1885	0.00	(*)	0.00	0.00		0.00		0.08	0.53	1882	0.00	(*)
02, Ellis and Tracy	(T)	0.05	1876	0.00	(*)	0. 01	0.10	18-4	0.00	(*)	0.01	0.20	'82 '83	0. 00	(*)
03. Berkeleyt			. . .			1									
04. Oakland	0.03	0.18	1877	0 00	(²)	0.02	0. 25	1884	0.00	(*)	11 0. 22	1.00	1882	0.00	(*)
05. Livermore	(T)	0.04		0.00	(*)	0.01	0.10	1884	0.00	(*)	0, 12	0.80	1837	0.00	(*)
06. Pleasanton		0.04	1882	0.00	(*)	0.01	0.09	1884	: 0.00	(*)	0.08	0.35	1883	0.00	(*)
07, Niles		0.00		0.00		0.00	0.00		0.00		0.10	0.71	1883	0.00	(*)
08. Midway		0.00		0.00	(*)	0.00	0.00		0.00		0.10	0.00		0.00	
09. Calaveras Valley	0.00	0.00		0.00		0.00	0.00		0.00		0.26	0.46	1882	0.00	187
10. Marsh Rancht						9									
11. Langworth	0.00	0.00		0.00		0.00	0.00		0.00		. 0.16	0.50		0.00	
12. La Grange	0.00	0.00		0.00		0.00	0.00		0.00		0.16	2.35	1879	0.00	()
13, Modesto		0.15	1876	0.00	(*)	0.00	0.00		0.00		0.09	0.75	1874	0.00	- čń
14. Gravson		0.00				0.00	0.00		0.00		0.01	0.08	1883	0.00	(†) (†) (†)
15. Thurlock		0 00				0.00	0.00		0.00		0.13	1.00	1887	0.00	- ini
16. Hill's Ferry		0.00		0.00		0.00	0.00		0,00		. 0.13	0.63	18-3	0.00	- 25
17. San Mateo	(\mathbf{T})	0.07	1886	0.00		0.00	0.00				0.12	0.48	1878	0.00	e)
18. Crystal Springs		0.25	1881	0.00	Ò	0.00	0.00		0.00		0.29	1.41	1878	1 0.00	ল
19. Menlo Park		0.24	1886	0.00	(4)	(T)	0.05	1884	0.00	(*)	0.05	0.22	1887	0.00	(†)
20. Woodside		0.00		0.00		0. 02	0.05	1884	0.00		0.16	0.25		0.07	
21, Pigeon Point.		0.07	1882	0.00	(*)	0.00	0.00				0.18	0.43	18×2	0.00	Ö
22, Año Nuevo Island	0.00	0.60		0.00	(²)	0.00	0.00		0.00		0.25	0. 62	1883	0.00	- 24
23. San Andres		0.08	1881	0.00	(ť)	0.00	0.00		0.00			1.39	1878	0.00	નં
24. Pilarcitos	0.03	0.28	77' 77'	0.00	6	(T)	0.07	1876		(2)	0.39	1. 70	1883	0.00	6
25. Point Montara		0.05		0.00	6	0.00	0.00		0.00			0.73	1878	0.00	- 6

		Octo	ber.	1	Novemb	er		Decemb	er		Year.	
Name and number of station.	Aver- age.	Maximu	m. Minimu	m. Aver	[•] Maximum.	Minimum.	Aver age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.
	Ins.	Ins. Yr	s. Ins. Y	e. Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.
187. Yerba Buena Isl'd	0.88	2.13 188	2 0.00 18	8 1.82	17.05	0.00	3.40	9.79 1880	0.00 1876		27. 30 77-78*	6. 13 76-77
188, Presidio	0.60	2.37 187	6 0.00 (1			0.17 1876	4.26	12.07 1852		19.13	34.84 67-68*	8.08 76-77
189, Faralion Islands		. 2. 44	0.00			0.00	3.54	8.11	0.94	18.18	26.15	10.54
190, Point San José	0.58	· • • • • • • • •	••• •••••••	1. 91	'		3. 07	14.37	••••••	
191, Antioch		1. 25 188		1. 29		0.00 1850	1.10	2.89 1884	0.00 1880	9 73	18.35 83-84*	
192, Martinez	0. 53	1.63 188				0, 00 '77 '84	2.65	8.84 1880	0.00 1877	16.02		10. 23 84-85*
193, East Brother Isl'd		1.20 188		80 : 1.45		0.00 1875	1.01	3.00 1880	0.00 1876	7.47		4.56 81-824
194, Brentwood	0.32	1.20 184	4 0,00 (1)	1.21	6.40 1885	0.00 1884	1.75	5.18 1880	0, 28 1882	10.76	16.76	6.77
195, Clayton†					••••••••••••							• • • • • • • • • • • • •
196, Mount Diablo		2.95 187				0.27 1876	1.06	3.11 1875	0.00 1876	16.27		11.40 76-77
197, Byron	0.49	1.23 188	4 0.00 (¹	1.31	6.70 1885	0.00 84 80	2, 28	7.56 1880	0.32 1882	12.02	18.25 83-84	7.34 84-85
198, Camp Uniont		····										
199, Farmington		2.23 188			6.95 1885	0. 00 '76 '84	2.15	6.21 1884	0.00 1876		23.34 83-84*	
200, Stockton		2.11 187				0.00 1884	2.62		0.00 1876	13 91		6.87 70-71
201, Lathrop		1.46 188				0.00 1884	1.65	5.79 1880	0.37 1882	11.19	16.35 83-84	
202, Ellis and Tracy	0.28	0.85 187	6 0.00 (¹	1. 01	5. 60 1885	0.00 70 84	1.87	9.50 1871	0. 00 '70 '76	8.84	14.68 71-72	2.91 70-71
203, Berkeley						A AN 1004	3. 93					
204, Oakland	1.35	4.74 187				0.00 1884		12.57 1880	0.00 1878	23.07		12. 29 76-77
205, Livermore 206, Pleasanton	0.51	1.67 187 2.39 184				0.00 1870	2.62	11. 69 1871 .10. 61 1880	0.00 1876 0 07 1878	13.81	22.75 83-84	6.01 76-77
200, Fleasanton	0.73	2. 39 187				0.00 70 84	3.23	11.91 1871	0.00 1878	17.49 16.88	23.98 81-81	
208, Midway		0. 23 187				0.10 1878	0.55	0.69 1877	0.41 1878	6.62	26.25 83-84	
209. Calaveras Valley	1.42	1.88 188				0.37 1878	2.35	5. 33 1879	0.43 1878	26 83	37. 30 83-81	2.24 78-79
210. Marah Ranch	1. 76	1.00 100	a 0.1210			0.57 1070	9.67	9.99 1618	0,40 10/0	, 20 03	31. 00 60-61	21.40 82-88
211, Langworth	0.79	1.74	0.00	2. 30	8.42	0.00	2. 55	6.07	1. 10	15.52	22.75	9.47
212. La Grange	0.85	3.52 117				0.12 1872	2.80	7.91	0.00 1876	16.54	25. 87 75-76*	
213. Modesto	0 40	1. 39 188				0.00^{-12}	1.54	4. 76 1871	0.00 (1)	8.89	13. 54 75-76*	
214. Graveon	0.47	2.17 187			5.95 1875	0.00 1876	2.70	15. 11 1871	0.00 1876	11.83	23. 51 71-72*	
215. Thurlook	0.46	1.31 188			6. 63 1885	0. 00 '78 '84	1.04	3. 30 1830	0.00 78 82	8.87	15.09 85-86	
216 Hill's Ferry	0.35		0.00 18			0.09 1883	1.89	4.65 1880	0.70 1883	11.81	19.20 81-81*	
217. San Mateo	0.92	2.46 187				0.00'73'76		11.30 1880	0.00 1876	18.49	27. 49 77-78	
218, Crystal Springs .	1.95	6. 32 187				0.00 1880	5, 29	18.56 1880	0.00 1576	38 14		17 15 76-77
219, Menlo Park	0.43	1. 25 188			6.22 1885	0 27 1884	2.80	8.93 1880		14.29	20. 25 81-84*	
20, Woodside	1.27	2.42		5.90		0.33	9.47	14.23	4.71	36.13	37.40	21.59
221, Pigeon Point	0.80	2.34	0. 00 '75			0.00 1876	3.17	6.64 1880	0.00 1876	16.97	37. 28 77-78-	
22, Año Nuevo Isl'd.		2.37 187	8 0.01 18		12.39 1875	0.10 1876	5, 19	13.10	0.00 1876	22 24	31.91 75-76*	
223, San Andres	1.88	7.73 187		0 4.11	17,30 1875	0.33 1876	10.34	51.05 1871	0.00 1876	46.05		
24, Pilarcitos	2.01	6.85 187		66' 6, 09	16.94 1875	0.54 1876	12.35	41.87 1871	0.00 1876	54.83	81, 79 67-68*	
25, Point Montara	1.10	2.77 187	6 0.00 184	0 . 3. 29	10.98	0.27 1880	4. 79	10.09	0.00 1876	24.40	33. 57 77-78*	8. 62 76-77
•		1		i] –			1					,

i No data. * Seasonal rain-fall, September to August, inclusive. (1) Frequently. (2) Generally.

(T) Trace of rain-fall.

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Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

		•	Januar	· .			F	ebruar	у.				March	•	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.	A ver- age.	Maxi	mum.	Minir	num.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yr
6, Mount Hamilton		5. 60	1884	2.00	1883	6.06 6.31	11. 56	1884	3. 10	1882	6.05 7.99	13.95	1884	0.75	188
8. Wright's	. 7.91					4.48					2.60				
9, San José	. 2.70	5.53	1878	0.68	1887	2.49	6.94	1878	0.18	1885	1.47	6. 23	1884	0. 59	187
0, Santa Clara	. 2.05	4.10	••••	0.55	• • •	1.70	3.99		0.25	••••	2.97	5.80	•••	0.65	• • •
1, Los Gatos 2, Tennant		6. 76	1881	0.00	1878	5.60 3.63	10.75	1878	0.00	1885	1.68	10.09	1884	1.28	188
3, Gilroy		8.98	1878	0.90	1887	2. 95	11.48	1878	0.00	1877	2.76	7.24	1884	0.28	188
4. Livingston	. 1.72	3.06	1886	0.37	1887	1.22	2.41	1887	0.03	1886	1.13	1.83	1886	0.43	188
5, Central Point	1.52	3.61		0.78	1880	1.05	3.10	1884	0.00		1.85	8.56	1884	0.66	::
8, Merced 7, Athlone		10. 30 2. 87	1886 1886	0. 13 0. 38	1857 1887	1.41	4.39 3.52	1884 1887	0.00	73 '85' 18×6	1.44	5.38 2.78	1884 1884	0.00	18 18
Los Banos	1.61	2.01			1001	1.08	0.02	1001		10.0	1.20		1000		
Aptos	. 3.81	7.61	1886	0.95	1887	3.27	8.82	1887	0.19	1885	1.76	4.09	1886	0 43	18
, Santa Cruz		16.87	1875	1.01	1887	3.98	14. 71	1878	0.41	1885	3.18	8.76	1884	0.47	18
, Loma Prieta Watsonville			• • • • • • • • •		•••••	8.08 4.74	· • • • • • •	•••••		•••••	11.72 2.14	· • • • • • • •		-	•••••
Soquel			• • • • • • • •		••••••	(T)		•••••		•••••	(T)				
Buchanan		6.11	1881	1.24	1879	3.12	4.25	1880	1.75	1879	3.00	5. 41	1882	1.49	18
Fort Miller	. 1.65	2.60	1858	0.29	1859	1.76	4.53	1857	0.17	1858	4.29	15. 59	1852	0.29	18
Hamptonville Borden	- 1.71	2.50	1879	0.92	1880	3.18	4.86	1880	1.50	1879	2.29	3.52	1879	1.05	18
Borden Big Dry Creek	3 84	3.98 6.62	1886 1875	0.25	1887 1873	1.40	4.48	1884 1878	0.00	'76 '85 1877	1.26 3.17	3.29 6.64	1884 1874	0.00	18
Firebaugh Ferry	. 1.78	4.34	10/5	0.27	1010	1.14	3.20	1884	0.00		1. 12	3.00		0.29	
Fresno King's River (Centerville)	1.30	3.20	1878	0.00	1883	1.21	3.18	1884	0.00	1885	1.21	2.81	1884	0.09	1
King's River (Centerville)	. 2.42	4.86	1884	0.92	1883	3.00	8.39	1884	0.53	1883	2.97	6.90	1884	0.88	11
Kingsburgh New Idria	0.98 2.18	2.47 6.81	1884 1884	0.00	'79 '83	1.35 2.43	4.09 6.28	1884 1884	0.00	1885	1.21 5.56	4.09 9.58	1884 1882	0.13 1.47	18
Selma		1.97	1886	0.31	1887	1.60	2.84	1887	0.36	1886	0.48	0.96	1886	0.00	i
Hollister	. 2.42	5.98	1876	0.57	1887	1.83	6. 61	1878	0. 16	1875	1.67	4.38	1884	0.35	- îi
San Benito	. 4.91		••••••••••		••••••	1.88					0.36				••••
Pajaro	. 4.13	10.27	1878	1.41	1882	2.91	10. 26 8. 58	1878	0.15	1885	2.65	5.83 4.69	1884 1884	0.22	18
, Monterey	. 3.03 . 2.13	7.06	1878 1886	0.78	1887 1887	2.34	8. 98 4. 92	1878 1887	0.00	'77 '85 1885	3.03	6.12	1852	0.40	18 18
Chualar.	. 2.70	2.80	1886	0.54	1885	2.42	2. 50	1887	0.00	1885	2.13	5.17	1684	0.32	i
Soledad	. 2.03	5. 26	1876	0.34	1887	1.68	4.63	1878	0.00	1885	1.58	4.65	1882	0. 28	18
Jolon	- 3.68		• • • • • • • •			3.56				• • • • • • • • •	3.36		· · · • • • • •	·····	
Gonzales. Kings City.	. 1.73		•••••		••••••	1.78	•••••	•••••		•••••	1.70 0.18	••••	· · • • • • • •	·····	••••
, mingo 010y															
	0.50					5.08			I		0.10				
	0.38		April			5.08		Мау.			0.18		June.		
Name and number of station.	Aver age.	Max	April imum.		imum.	Aver-	Maxi	May. imum.	1	imum.	Aver-	Max	June. imum.		 mum.
Name and number of station.	Aver age. Ins.	Ins.	imum. <i>Yrs</i> .	Mini Ins.	Yrs.	Aver- age. Ins.	Ins.	imum. Yrs.	Min Ins.	Yrs.	Average.	Ins.	imum. <i>Yrs</i> .	Mini Ins.	
, Mount Hamilton	Aver age. Ins. 4.54	Max	imum.	Min		Aver- age. Ins. 2.34		imum.	Min	Yrs . 1881	Aver- age. . Ins. 1.31		imum. <i>Yrs</i> . 1884	Mini	Г 18
, Mount Hamilton	A ver age. Ins. 4.54 2.90	Ins.	imum. <i>Yrs</i> .	Mini Ins.	Yrs.	Aver- age. 2.34 2.13	Ins.	imum. Yrs.	Min Ins.	Yrs.	Aver- age. 1.31 0.00	Ins.	imum. <i>Yrs</i> .	Mini Ins.	
, Mount Hamilton Murphy's Wright's	Aver age. Ins. 4.54 2.90 .11.32	Ins. 11.96	imum. <i>Yrs.</i> 1884	Mini Ins. 0.98	Yrs . 1881	A ver- age. 2.34 2.13 0.00	Ins. 7.56	imum. <i>Yrs.</i> 1883	Min Ins. 0.09	Yrs . 1881	Aver- age. 1.31 0.00 0.00	Ins. 3.85	imum. <i>Y78.</i> 1884	Mini Ins. 0.00	7 18
, Mount Hamilton	Aver age. Ins. 4.54 2.90 11.32 . 1.97	Ins.	imum. <i>Yrs</i> .	Mini Ins.	Yrs.	Aver- age. 2.34 2.13	Ins.	imum. Yrs.	Min Ins.	Yrs . 1881	Aver- age. 1.31 0.00	Ins.	imum. <i>Yrs</i> . 1884	Mini Ins.	F 14
, Mount Hamilton	A ver age. Ins. 2.90 .11.32 .1.97 .1.50 .3.59	Ins. 11.96 8.70 2.90	imum. <i>Yrs.</i> 1884 1880	Mini Ins. 0.98 0.00 0.60	Yrs. 1881 '75 '77	Aver- age. 2.34 2.13 0.00 0.41 0.52 0.15	Ins. 7.56 2.18 2.87	imum. <i>Yrs.</i> 1883	Min Ins. 0.09 0.00 0.00	Yrs. 1881 	Aver- age. 1.31 0.00 0.00 0.20 0.39 (T)	Ins. 3.85 2.15 1.65	imum. <i>Yrs.</i> 1884 1884	Mini: Ins. 0.00 0.00 0.00	7 14 (
Mount Hamilton Murphy's Wright's Sau José Santa Clara Los Gatos Tennant	A ver age. Ins. 4.54 2.90 11.32 1.97 1.59 3.59 3.03	Ins. 11.96 8.70 2.90 10.84	imum. <i>Yrs.</i> 1884 1880 1880	Min Ins. 0. 98 0. 00 0. 60 0. 37	Yrs. 1881 '75 '77 1881	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93	Ins. 7.56 2.18 2.87 3.38	imum. 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00	Frs. 1881 (²) '70 '81	A ver- age. 1. 31 0. 00 0. 20 0. 39 (T) 0. 21	<i>Ins.</i> 3. 85 2. 15 1. 65 1. 42	imum. Yrs. 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00	7 14 (
Mount Hamilton Murphy's Wright's Sant José Santa Clara Los Gatos Tennant Gilroy	Aver age. 1ns. 2.05 1.32 1.97 1.50 3.03 2.05	<i>Ins.</i> <i>Ins.</i> 11.96 8.70 2.90 10.84 9.48	imum. <i>Yrs.</i> 1884 1880 1880 1880 1880	Mini Ins. 0.98 0.00 0.60 0.37 0.00	Yrs. 1881 '75 '77 1881 1875	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93 0.40	Ins. 7.56 2.18 2.87 3.38 2.23	imum. Yrs. 1883 1883 1883 1883	Min Ins. 0.09 0.00 0.00	Yrs. 1881 	Aver- age. Ins. 1.31 0.00 0.00 0.20 0.39 (T) 0.21 0.13	<i>Ins.</i> 3. 85 2. 15 1. 65 1. 42 1. 24	imum. <i>Yrs.</i> 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00	F 12
Mount Hamilton Murphy's Wright's Sant José Santa Clara Los Gatos Tennant Gilroy	Aver age. 1ns. 2.05 1.32 1.97 1.50 3.03 2.05	<i>Ins.</i> <i>Ins.</i> 11.96 8.70 2.90 10.84 9.48 2.80	imum. <i>Yrs.</i> 1884 1880 1880	Min Ins. 0. 98 0. 00 0. 60 0. 37	Yrs. 1881 '75 '77 1881 1875 1887	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93 0.40 0.00	Ins. 7.56 2.18 2.87 3.38	imum. 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00	Frs. 1881 (²) '70 '81	A ver- age. 1. 31 0. 00 0. 20 0. 39 (T) 0. 21	<i>Ins.</i> 3. 85 2. 15 1. 65 1. 42 1. 24 0. 00	imum. Yrs. 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00	F 11
Mount Hamilton. Murphy's. Wright's San José. Santa Clars. Los Gatos. Tennant. Gilroy. Livingston. Central Point. Merced.	A ver age. Ins. 2.900 11.32 1.97 1.50 3.03 2.05 2.13 1.78	Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41	imum. Yrs. 1884 1880 1880 1880 1880 1880 1880 1880 1880 1880	Min Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1882 '73 '77	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.00 0.40 0.00 0.54	Ins. 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32	imum. Yrs. 1883 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00	Frs. 1881 (²) '70 '81 (²)	A ver- age. 1.31 0.00 0.00 0.20 0.39 (T) 0.21 0.13 0.00 0.20 (T)	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73	imum. Yrs. 1884 1884 1884 1884 1884	Mini: Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	F 11
Monnt Hamilton. Murphy's. Wright's San José. Santa Clara Los Gatos Tennant Gilroy Livingston. Central Point. Merced. Athlone	A ver age. Ins. 4.54 2.90 11.32 1.50 3.59 3.03 2.05 2.13 1.29 1.29 1.78 2.17 2.13	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96	imum. Yrs. 1884 1880 1880 1880 1880 1880 1880 1880	Min <i>Ins.</i> 0.98 0.00 0.60 0.37 0.00 1.46 0.40	Yrs. 1881 '75 '77 1881 1875 1887 1887	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93 0.40 0.00 0.48 0.54	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86	imum. Yrs. 1883 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00	Yrs. 1881 (²) '70 '81 (²) '81 '87	Aver- age. <i>Ins.</i> 1.31 0.00 0.20 0.39 (T) 0.21 0.13 0.00 0.20 0.21 0.13 0.00 0.20 0.21 0.13 0.00 0.20 0.20 0.21 0.13 0.00 0.20 0.20 0.21 0.21 0.21 0.22	<i>Ins.</i> 3. 85 2. 15 1. 65 1. 42 1. 24 0. 00 1. 40	imum. Yrs. 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00	F 11
Mount Hamilton Murphy's Wright's Sau José Santa Clara Los Gatos Tennant Gilroy Livingston Central Point Merced Athlone Los Banos	Aver age. Ins. 4.54 2.90 1.97 1.50 3.03 2.05 2.13 1.29 1.78 1.78 2.40 0.77	Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62	Yrs. 1881 '75 '77 1881 1875 1887 '73 '77 1887	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.03 0.40 0.048 0.54 0.54 0.28	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00	imum. Yrs. 1883 1883 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Yre. 1881 (?) '70 '81 (?) '81 '87 (2)	Aver- age. <i>Ins.</i> 1.31 0.00 0.00 0.20 0.39 (T) 0.21 0.13 0.00 0.20 0.19 0.12	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28	imum. Yrs. 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	У 14 (
Mount Hamilton Murphy's Wright's San José. Santa Clara. Los Gatos Tennant Gilroy Livingston Central Point. Merced Athlone Los Banos Aptos.	Aver age. Ins. 4.54 2.90 1.132 1.97 1.50 3.03 2.05 2.13 2.05 2.13 1.78 2.40 0.77 0.77	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18 7.10	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62 1.61	Yrs. 1881 '75 '77 1881 1875 1887 '73 '77 1887 '73 '77 1887	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93 0.40 0.00 0.40 0.00 0.54 0.00 0.28 0.28	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27	imum. Yrs. 1883 1883 1883 1883 1886	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.	Yrs. 1881 (²) '70 '81 (³) '81 '87 (²) 	Aver- age. Ins. 1.31 0.00 0.20 0.39 (T) 0.13 0.00 0.20 0.13 0.20 0.13 0.00 0.12 0.13 0.13	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	J
Mount Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Gilroy Livingston Central Point Merced Athlone Los Banos Aptos Santa Cruz Loma Prieta	A ver age. Ins. 4.54 2.90 11.32 1.50 3.59 2.05 2.205 2.213 1.29 1.78 2.05 2.05 2.3 3.50 1.23 1.29 3.50 3.205 2.3 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.	Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62	Yrs. 1881 '75 '77 1881 1875 1887 '73 '77 1887	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.03 0.40 0.048 0.54 0.54 0.28	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00	imum. Yrs. 1883 1883 1883 1883 1883	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Yre. 1881 (?) '70 '81 (?) '81 '87 (2)	Aver- age. <i>Ins.</i> 1.31 0.00 0.00 0.20 0.39 (T) 0.21 0.13 0.00 0.20 0.19 0.12	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28	imum. Yrs. 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	J
Mount Hamilton Murphy's. Wright's San José. Santa Clars. Los Gatos. Tennant Gilroy Livingston. Central Point. Merced. Athlone Los Banos. Aptos Santa Cruz. Loma Prieta.	A ver age. Ins. 4.54 2.90 11.32 1.50 3.59 2.05 2.205 2.213 1.29 1.78 2.05 2.05 2.3 3.50 1.23 1.29 3.50 3.205 2.3 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18 7.10	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62 1.61	Yrs. 1881 '75 '77 1881 1875 1887 '73 '77 1887 '73 '77 1887	A.ver- age. <i>Ins.</i> 2.34 2.13 0.00 0.41 0.51 0.93 0.40 0.00 0.48 0.00 0.28 0.20 0.51 0.20 0.16	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27	Imum. Yre. 1883 1883 1883 1883 1886 1886	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.	Yrs. 1881 (²) '70 '81 (³) '81 '87 (²) 	A ver- age. <i>Ins.</i> 1. 31 0. 00 0. 20 0. 21 0. 21 0. 13 0. 00 0. 20 0. 34 0. 00 0. 34 0. 00	<i>Ins.</i> 3. 85 2. 15 1. 65 1. 42 1. 24 0. 00 1. 40 1. 73 0. 23 0. 00 2. 48	Inum. Yrs. 1884 1884 1884 1884 1884 1884 1884	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
Mount Hamilton. Murphy's. Wright's San José Santa Clara. Los Gatos. Tennant Gilroy. Livingston. Central Point. Merced. Athlone Los Banos. Santa Cruz. Loma Prieta.	A ver age. Ins. 4.54 2.90 11.32 1.50 3.59 2.05 2.205 2.213 1.29 1.78 2.05 2.05 2.3 3.59 1.23 1.29 3.50 3.205 2.3 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.	Max <i>Ins.</i> 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18 7.10 7.60	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.40 0.62 1.61 0.10	Yrs. 1881 '75 '77 1881 1875 1887 1887 '73 '77 1887 1887 1887	A ver- age. Ins. 2.34 2.13 0.00 0.52 0.55 0.93 0.40 0.00 0.48 0.20 0.54 0.28 0.20 0.51 0.15 0.54 0.54 0.54 0.54 0.55 0.55 0.55 0.5	Ins. 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18	imum. Yrs. 1883 1883 1883 1886 1886 1886	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.	Frs. 1881 (²) '70 '81 (²) '81 '87 (²) (²) 1885 '78 '81	A ver- age. <i>Ins.</i> 1.31 0.00 0.20 0.20 0.71 0.21 0.13 0.00 0.19 0.13 0.00 0.34 0.04 0.34	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T)	IN I	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
Monnt Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Gilroy Livingston Central Point Merced Athlone Los Banos Santa Cruz Loma Prieta Watsonville Soquel Buchanan	A ver age. <i>Ins.</i> 2.90 11.32 1.97 3.03 2.05 2.13 1.29 1.29 1.28 2.40 0.077 3.03 6.19 1.76 3.03 2.13 4.33 4.45 4.54 5.54 5.54 5.55 5.55 5.5	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18 7.10 7.60 8.93	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.61 0.10 1.89	Yrs. 1881 '75 '77 1881 1875 1887 '73 '77 1887 1887 1887 1887	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.15 0.93 0.40 0.00 0.41 0.52 0.15 0.93 0.40 0.00 0.41 0.52 0.15 0.93 0.00 0.58 0.54 0.09	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.00 1.86 2.32 0.00 0.00 0.00 0.00 0.00 0.00 0.00	imum. Yrs. 1883 1883 1883 1883 1886 1886 1886 1886 1886 1886 1887	Min Ins. 0.00 0	777 1881 (7) '70 '81 (*) '81 '87 (2) 1885 '78 '81 '80 '82	Average. <i>Ins.</i> 1.31 0.00 0.00 0.39 (T) 0.13 0.00 0.20 0.19 0.12 0.13 0.00 0.34 0.00 0.34 0.00 0.34	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T) 0.55	imum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
Monnt Hamilton Murphy's Wright's San José. Santa Clara. Los Gatos Tennant Gilroy Livingston Central Point. Merced Athlone Los Banos Santa Cruz. Loma Prieta Watson rille Soquel Buchanan	A ver age. <i>Ins.</i> 2.90 11.32 1.97 3.03 2.05 2.13 1.29 1.29 1.28 2.40 0.077 3.03 6.19 1.76 3.03 2.13 4.33 4.45 4.54 5.54 5.54 5.55 5.55 5.5	Max <i>Ins.</i> 11.96 8.70 2.90 10.84 9.48 2.80 2.96 8.41 3.18 7.10 7.60	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886 1886	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.40 0.62 1.61 0.10	Yrs. 1881 '75 '77 1881 1875 1887 1887 '73 '77 1887 1887 1887	A ver- age. Ins. 2.34 2.13 0.00 0.52 0.55 0.93 0.40 0.00 0.48 0.20 0.54 0.28 0.20 0.51 0.15 0.54 0.54 0.54 0.54 0.55 0.55 0.55 0.5	Ins. 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18	imum. Yrs. 1883 1883 1883 1886 1886 1886	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.	Frs. 1881 (²) '70 '81 (²) '81 '87 (²) (²) 1885 '78 '81	A ver- age. <i>Ins.</i> 1. 31 0. 00 0. 20 0. 20 0. 10 0. 21 0. 13 0. 00 0. 19 0. 13 0. 00 0. 34 0. 00 0. 34 0. 00 0. 34	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T)	IN I	Mini Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	
Monnt Hamilton Murphy's Wright's San José. Santa Clara. Los Gatos Tennant Gilroy Livingston Central Point. Merced Athlone Los Banos Santa Cruz. Loma Prieta Watson rille Soquel Buchanan	A ver age. <i>Ins.</i> 2.90 11.32 1.97 3.03 2.05 2.13 1.29 1.29 1.28 2.40 0.077 3.03 6.19 1.76 3.03 2.13 4.33 4.45 4.54 5.54 5.54 5.55 5.55 5.5	Ins.	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1886 1880 1886 1880 1886 1880 1886 1886 1886 1886 1880 1880 1886 1880	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62 1.61 0.10 1.89 0.00 2.27 0.00	Yrs. 1881 '75 '77 1881 1875 1875 1887 1877 187	A.ver- age. Ins. 2.13 0.00 0.41 0.52 0.15 0.93 0.40 0.00 0.48 0.40 0.00 0.51 0.155 0.51 0.160 0.160 0.707	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.34 4.79 1.00	IR83 I883 I883 I883 I883 I886 I886 I886 I8	Min Ins. 0.09 0.000 0.00	Frs. 1881 (7) '70 '81 (³) '81 '87 (²) 1885 '78 '81 '80 '82 '57 '58 1879 (²)	Ins. Ins. 0.20 0.21 0.21 0.21 0.31 0.21 0.21 0.30 0.21 0.31 0.30 0.31 0.32 0.34 0.00 0.34 0.00 0.34 0.00 0.12 0.34 0.00 0.11 0.12 0.12 0.12 0.12 0.13 0.00 0.14 0.15 0.16	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.20 1.73	imum. 1884 1884 1884 1884 1884 1884 1885 1885	Mini Ins. 0.00	
Mount Hamilton	Aver age. Ins. 4 54 2 290 1 1 32 1 97 1 50 3 205 2 13 3 205 2 213 3 205 2 213 2 215 2 215	Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins. Ins.	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1880 1877	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62 1.61 0.10 1.89 0.227 0.00 0.00 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 (²)	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.641 0.93 0.93 0.93 0.54 0.93 0.54 0.55 0.58 0.54 0.70 0.70 0.70 0.70 0.70	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.34 4.79 1.00 1.17 0.40	imum. 1883 1883 1883 1883 1886 1886 1886 1886	Min Ins. 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Yrs. 1881 (7) (8) (8) (8) (8) (8) (78) (8) (8) (8) (8) (8) (8) (8) (8) (8) (Aver- age. 1.31 0.00 0.20 0.20 0.20 0.20 0.20 0.20 0.2	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.02 2.48 (T) 0.55 0.01 0.20 1.73 0.73	imum. 1884 1884 1884 1884 1884 1884 1884 188	Minit Ins. 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	
Mount Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Gilroy Livingston Central Point Merced Athlone Los Banos Aptos Santa Cruz Loma Prieta Watsonville Soquel Buchanan Fort Miller Hamptonville Borden Big Dry Creek Firebaugh Ferry.	A ver age. Ins. 4.54 2.90 11.32 1.97 1.50 3.03 2.13 3.03 2.25 2.13 1.78 2.40 0.77 3.03 3.03 1.78 2.40 1.77 3.03 1.76 4.19 1.76 1.19 1.76 1.19 1.29 1.78 1.29 1.78 1.29 1.19 1.29 1.29 1.29 1.29 1.29 1.29	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 3.18 7.10 7.60 8.93 4.44 4.57 3.20 1.73 2.47	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1880 1886 1880 1887 1880	Mini Ins. 0.98 0.00 0.60 0.37 0.00 1.46 0.40 0.00 1.62 1.61 0.10 1.89 0.00 2.27 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 (²)	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.53 0.54 0.54 0.70 0.70 0.77 0.22 0.16	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.34 4.79 1.00 1.17 0.40 0.67	Ises 1883 1883 1883 1883 1883 1886 1886 1886 1886 1886 1886 1886 1887 1884 1877 1884	Min <i>Ins.</i> 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000 0.00000000	Frs. 1881 (7) '70 '81 (*) '81 '87 (2) 1885 '78 '81 '80 '82 '57 '58 1879 (2) '73 '76	Ins. Ins. 0.20 0.21 0.21 0.21 0.21 0.21 0.21 0.31 0.40 0.21 0.31 0.32 0.34 0.00 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.35 0.36 0.36 0.37	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.25 0.01 0.20 1.73 0.72 1.41	imum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00	
Mount Hamilton. Murphy's Wright's San José. Santa Clara. Los Gatos. Tennant Gilroy Livingston. Central Point. Merced. Athlone. Los Banos Aptos. Santa Cruz. Loma Prieta. Watsonville. Soquel. Buchanan. Fort Miller. Hamptonville. Borden Big Dry Creek. Firebaugh Ferry. Fireso.	A ver age. Ins. 4.54 2.90 11.32 1.97 3.03 2.13 3.03 2.13 1.78 2.25 2.13 1.78 2.20 3.03 2.23 1.78 2.240 0.77 3.50 3.03 1.76 1.76 1.76 1.76 1.77 1.76 1.79 1.76 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79	Inst. Inst. 11.96 8.70 2.90 10.84 9.48 2.80 8.41 3.18 7.10 7.60 1.73 2.47 2.87	imum. Yrs. 1884 1880 1880 1880 1886 1886 1886 1886 1886	Mini Ins. 0. 98 0. 00 0. 00 0. 60 0. 37 0. 00 0. 46 0. 40 0. 40 0. 40 0. 40 0. 40 0. 40 0. 40 0. 40 0. 10 1. 62 1. 61 0. 10 2. 27 0. 00 0. 000 0. 00 0. 00 0	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1879 1879 1879 1879 1879 1879 1879	Aver-age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.41 0.00 0.41 0.01 0.93 0.41 0.00 0.48 0.20 0.54 0.93 0.41 0.06 0.51 0.16 0.37 0.322 0.16 0.36	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.34 4.79 1.00 1.17 0.40	IN 1863 1883 1883 1883 1886 1886 1886 1886	Min Jrss. 0.09 0.000	Frs. 1881 (7) (81 (8) (8) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Aver- age. 1.31 0.00 0.20 0.20 0.20 0.20 0.20 0.20 0.2	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.73 0.28 (T) 0.55 0.01 2.48 (T) 0.72 1.41 1.29	imum. 1884 1884 1884 1884 1884 1884 1884 188	Mini Ins. 0.00	3 1 1 1 1 1
Mount Hamilton Murphy's. Wright's San José. Santa Clars Los Gatos. Tennant. Gilroy Livingston. Central Point Merced. Athlone Los Banos Aptos Santa Cruz. Loma Prieta Watson'ille Soquel Buchanan Fort Miller Hamptonville Big Dry Creek. Firebaugh Ferry. Fresno King's River (Centerville)	Aver age. Ins. 1. 54 1. 97 1. 50 1. 50 2. 05 2. 197 1. 50 3. 69 3. 03 2. 05 2. 13 3. 20 5. 21 2. 197 1. 78 2. 05 2. 13 3. 20 3. 20 3. 50 1. 78 2. 13 3. 20 3. 20 3. 50 3. 20 3. 20 3. 50 3. 20 3. 20 3. 50 3. 20 3. 20 3	Ins. In.96	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1880 1886 1880 1887 1880	Mini Ins. 0.98 0.00 0.60 0.60 0.37 0.00 0.37 0.00 0.37 0.00 0.37 0.00 0.00	Yrs. 1881 1875 1887 1878 1878 1878 1878 1878 1878 1878 1877	Aver-age. Ins. 2.34 2.13 0.00 0.52 0.52 0.52 0.93 0.41 0.93 0.40 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.15 0.74 0.93 0.54 0.54 0.54 0.54 0.54 0.70 0.71 0.722 0.16 0.30 0.81 0.39	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.34 4.79 1.00 1.17 0.40 0.67 1.36 2.53 1.53	Inum. Yrs. 1883 1883 1883 1883 1886 1886 1886 1886 1886 1886 1886 1886 1883 1886 1883 1886 1883 1886 1883 1883 1883 1884 1883 1883 1884 1883	Min Ins. 0.09 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00	Frs. 1881 (7) '70 '81 (³) '81 '87 (²) '81 '87 (²) '78 '81 '78 '81 '78 '82 '77 '88 '87 '77 '78 '87 '77 '78 '86	Image: Im	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.273 0.72 1.41 2.9 1.73 0.72	imum. Yrs. 1884 1884 1884 1884 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1885 1884 1885 1884 1885 185	Mini Ins. 0.00	3 1 1 1 1 1
Mount Hamilton Murphy's. Wright's San José Santa Clars Los Gatos. Tennant. Gilroy Livingston. Central Point Merced. Athlone Los Banos Aptos Santa Cruz. Loma Prieta. Watsonrille Soquel Buchanan Fort Miller Hamptonrille Big Dry Creek. Firebaugh Ferry. Fresno King's River (Centerville) Kingsburgh. New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1880 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1850 1850 1855 1850	Min: Ins. 0.98 0.00 0.37 0.00 0.60 1.46 0.00 1.62 2.27 0.00 0.00 0.22 1.61 0.10 1.89 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1875 1877 1875 1877 1875 1877 1878 1878 1877 1878 187	Aver- age. Ins. 2.34 2.34 2.0.15 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.93 0.54 0.00 0.58 0.59 0.59 0.51 0.54 0.70 0.70 0.70 0.37 0.36 0.37 0.36 0.37 0.38 0.39 0.76	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 5.32 0.00 0.27 3.18 5.32 0.00 1.17 0.40 0.67 1.36 2.53 1.53 2.85	Inum. Yrs. 1883 1883 1883 1883 1886 1886 1886 1886 1886 1886 1885 1879 1853 1884 1885 1886 1866 1886	Min Ine. 0.000	Frs. 1881 (7) (8) (8) (8) (8) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Ins. Ins. 0.00 0.20 0.31 0.31 0.40 0.20 0.31 0.41 0.41 0.41 0.41 0.42 0.42 0.43 0.44 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.42 0.43 0.44 0.44 0.41	<i>Ins.</i> 3.85 2.15 1.42 1.24 0.00 1.40 1.73 0.23 0.00 2.48 (T) 0.55 0.1 0.00 2.48 (T) 0.55 0.1 2.12 1.24 0.00 1.73 0.23 0.23 0.00 2.48 0.00 1.41 0.20 1.20 0.00 2.48 0.00 0.20 1.20 0.	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 1884	Minit Ins. 0.000 0.00	
Mount Hamilton Murphy's. Wright's San José Santa Clars Los Gatos. Tennant. Gilroy Livingston. Central Point Merced. Athlone Los Banos Aptos Santa Cruz. Loma Prieta. Watsonrille Soquel Buchanan Fort Miller Hamptonrille Big Dry Creek. Firebaugh Ferry. Fresno King's River (Centerville) Kingsburgh. New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1880	Min: Ins. 0.98 0.00 0.00 0.00 0.07 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00	Yrs. 1881 '75 '77 1881 1875 1887 187	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.40 0.00 0.53 0.54 0.70 0.71 0.22 0.16 0.39 0.76 0.76 0.29	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.27 3.18 0.27 3.18 0.34 4.79 1.00 1.17 0.40 0.67 1.36 2.53 1.53 2.85 0.55	Ises Ises	Min Ins. 0.09 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00	Frs. 1881 (7) '70 '81 (*) '81 '87 (2) 1885 '78 '81 '78 '81 '78 '81 '78 '81 '73 '76 '78 '86 '79 '86 (79 '86 (79 '86 (7) '78 '86	Ins. Ins. 0.20 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.31 0.32 0.34 0.00 0.34 0.00 0.34 0.31 0.16 0.11 0.33 0.31 0.31 0.31 0.31 0.31	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T) 0.24 (T) 0.24 0.00 2.48 (T) 0.23 0.72 1.41 1.29 0.92 3.05 0.00	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1885 185	Mini Ins. 0.00	
Mount Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Central Point Merced Athlone Los Banos Aptos Santa Cruz Loma Prieta Watson'lile Borden Bochanan Fort Miller Hampton'lile Borden Big Dry Creek Firebaugh Ferry Fresno King's River (Centerville) Kingsburgh New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1880 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1880 1855 1855 1855 1850 1850 1855 1850	Min: Ins. 0.98 0.00 0.37 0.00 0.60 1.46 0.00 1.62 2.27 0.00 0.00 0.22 1.61 0.10 1.89 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1887 1887 1887 1875 1881 1857 1871 1879 1875 1881 1881 1857 1875 1887 1875 1887 1875 187	Aver-age. Ins. 2.34 2.34 2.34 0.52 0.53 0.41 0.52 0.93 0.41 0.93 0.40 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.41 0.93 0.54 0.54 0.54 0.54 0.55 0.70 0.71 0.72 0.16 0.30 0.81 0.39 0.32 0.33	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 5.32 0.00 0.27 3.18 2.53 1.53 2.85	Inum. Yrs. 1883 1883 1883 1883 1886 1886 1886 1886 1886 1886 1885 1879 1853 1884 1885 1886 1866 1886	Min Ine. 0.000	Frs. 1881 (7) (7) (8) (8) (8) (7) (8) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7	Ins. Ins. 0.00 0.20 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.32 0.33 0.34 0.35 0.36 0.37 0.38 0.39 0.31 0.31 0.32 0.33 0.43 0.43 0.43 0.43 0.44 0.44 0.45 0.45 0.45 0.45	<i>Ins.</i> 3.85 2.15 1.42 1.24 0.00 1.40 1.73 0.23 0.00 2.48 (T) 0.55 0.1 0.00 2.48 (T) 0.55 0.1 2.02 1.41 1.29 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 3.05 0.92 0.	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 1884	Minit Ins. 0.000 0.00	
Mount Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Central Point Merced Athlone Los Banos Aptos Santa Cruz Loma Prieta Watson'lile Borden Bochanan Fort Miller Hampton'lile Borden Big Dry Creek Firebaugh Ferry Fresno King's River (Centerville) Kingsburgh New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1880 1887 1884 1887 1884	Min: Ins. 0.98 0.00 0.00 0.00 0.07 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00	Yrs. 1881 '75 '77 1881 1875 1887 187	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.40 0.00 0.41 0.52 0.93 0.40 0.00 0.53 0.54 0.70 0.71 0.22 0.16 0.39 0.76 0.76 0.29	<i>Ins.</i> 7.56 2.18 2.23 0.00 1.86 2.32 0.00 1.86 2.32 0.00 0.27 3.18 0.27 3.18 0.27 3.18 1.00 1.17 0.40 0.67 1.36 2.53 1.53 2.85 0.54 3.29	Ises Ises	Min Ins. 0.09 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00	Frs. 1881 (7) (7) (8) (8) (8) (7) (8) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7	Ins. Ins. 0.20 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.31 0.32 0.34 0.00 0.34 0.00 0.34 0.31 0.16 0.11 0.33 0.31 0.31 0.31 0.31 0.31	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.00 1.42 1.24 0.24 0.24 1.24 0.00 1.42 1.24 0.00 1.42 0.24 0.72 1.41 1.29 0.92 8.05 0.01 1.29 1.47 1.24 1.24 1.24 1.24 1.27 1.24 1.29 1.27 1.24 1.24 1.24 1.24 1.24 1.27 1.24 1.24 1.24 1.24 1.24 1.27 1.24	imum. 1884 1884 1884 1884 1884 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 1855 1885	Mini Ins. 0.00	
Mount Hamilton Murphy's Wright's San José Santa Clara Los Gatos Tennant Central Point Merced Athlone Los Banos Aptos Santa Cruz Loma Prieta Watson'lile Borden Bochanan Fort Miller Hampton'lile Borden Big Dry Creek Firebaugh Ferry Fresno King's River (Centerville) Kingsburgh New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1880	Min: Ins. 0.98 0.00 0.37 0.00 0.60 1.46 0.00 1.62 2.27 0.00 0.00 0.22 1.61 0.10 1.89 0.000 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1887 1877 1877 1877 1877 1877 1877 1877 1877 1875 1877 1875 1875 1875 1875 1875 1875 1875 1875 1875 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 1887 1877 177	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.41 0.52 0.93 0.54 0.93 0.54 0.00 0.48 0.54 0.52 0.54 0.54 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.48 0.48 0.43 0.48 0.48	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 2.32 0.00 0.27 3.18 2.32 0.00 1.17 0.40 0.67 1.36 2.53 1.53 2.85 5.58 1.54 2.23 2.85 2.55 2.55 2.55 2.55 2.55 2.55 2.55	In um. Yrs. 1883 1883 1883 1883 1886 1886 1886 1886 1886 1889 1879 1853 1884 1883 1884 1883 1884 1883 1884 1883 1883 1883	Min Ine. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.13 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Frs. 1881 (7) (7) (8) (8) (8) (7) (8) (7) (8) (7) (7) (7) (7) (7) (7) (7) (7	Ins. Ins. 0.00 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.13 0.00 0.31 0.00 0.14 (T) 0.14 (T) 0.14 (T) 0.13 0.01 0.14 (T) 0.14 (T) 0.14 (T) 0.11 0.17 0.20 0.19 0.21	<i>Ins.</i> 3.85 2.15 1.42 1.24 0.00 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.41 1.29 1.24 1.24 1.24 1.41 1.24 1.24 1.24 1.42 1.44 1.29 1.44 1.29 1.44 1.29 1.44 1.29 1.44 1.25 0.00 1.47 1.44 1.25 0.00 1.47 1.44 1.25 0.00 1.47 1.44 1.25 1.25 1.44 1.25 1.25 1.44 1.25 1.25 1.44 1.25 1.25 1.25 1.44 1.25 1.25 1.25 1.47 1.25 1.55	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 1885 1885 1885 1884	Mini Ins. 0.00	
Mount Hamilton Murphy's Wright's San José San José San José Tennant Central Point Merced Athone Los Banos Aptos Santa Cruz Loma Prieta Watsonville Soquel Buchanan Fort Miller Hamptonville Borden Big Dry Creek Firebaugh Ferry Fremo King's River (Centerville) Kingsburgh New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1884 1880 1880 1880 1880 1880 1886 1886 1886 1886 1886 1880	Min: Ins. 0.98 0.00 0.00 0.00 0.07 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1877 187	A ver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.51 0.52 0.51 0.54 0.54 0.76 0.29 0.33 0.43 0.43 0.43 0.43 0.43	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 0.27 3.18 0.27 3.18 0.34 4.79 1.00 1.17 0.40 0.67 1.36 2.53 1.53 2.85 0.58 1.54 	Ises Ises	Min Jns. 0.09 0.000	Frs. 1881 '70 '81 '81 '87 (2) 1885 '78 '81 1885 '78 '81 '879 (2) 73 '76 '78 '86 '79 '80 (7) 1886 (2) (7) 1886 (2) (2) (3) (3) (3) (4) (3) (4) (3) (4) (4) (4) (5) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) ()	Ins. Ins. 0.00 0.70 0.71 0.81 0.91 0.13 0.039 0.13 0.039 0.13 0.03 0.13 0.00 0.12 0.13 0.00 0.12 0.13 0.00 0.12 0.34 0.00 0.11 0.13 0.13 0.00 0.14 0.15 0.16 0.11 0.13 0.14 0.15 0.11 0.11 0.12 0.11 0.80 0.11 0.81 0.11 0.81 0.90 0.11 0.81 0.90 0.90 0.20	<i>Ins.</i> 3.85 2.15 1.65 1.42 1.24 0.00 1.40 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.20 1.41 1.29 1.73 0.72 1.41 1.29 1.47 0.92 3.05 0.00 1.47 2.54 1.47	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 185	Mini Ins. 0.00	
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Mount Hamilton Murphy's Wright's Sau José Sau José Santa Clara Los Gatos Tennant Gilroy Livingston Central Point Merced Athlone Los Banos A ptos Santa Cruz Loma Prieta Watsonville Soquel Buchanan Fort Miller Hamptonville Borden Big Dry Creek Firebaugh Ferry Fresno King's River (Centerville) Kingsburgh New Idria	Aver age. Ins. 1. 4.54 2. 90 1. 30 2. 1. 97 1. 50 3. 69 3. 03 2. 05 2. 13 3. 03 3. 03 2. 05 2. 13 3. 03 3. 04 3. 0 3. 04 3. 05 3. 04 3. 04 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04 3. 04 3. 05 3. 04 3. 04	Ins. Ins. 11.96 8.70 2.90 10.84 9.48 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.80 3.18 7.10 7.10 7.85 5.23 8.05 5.05	imum. Yrs. 1884 1880 1880 1880 1880 1886 1886 1886 1886 1886 1886 1886 1886 1880 1886	Min: Ins. 0.98 0.98 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00 1.46 0.00	Yrs. 1881 '75 '77 1881 1875 1887 1887 1887 1887 1875 1877 1877 1877 1877 1877 1877 1877 1877 1875 1875 1875 1875 1875 1875 1875 1875 1875 1875 1877 1875 1877 1877 1877 1875 187	Aver- age. Ins. 2.34 2.13 0.00 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.93 0.41 0.52 0.16 0.54 0.70 0.71 0.72 0.16 0.37 0.16 0.39 0.41 0.33 0.41 0.36 0.33 0.41 0.36	<i>Ins.</i> 7.56 2.18 2.87 3.38 2.23 0.00 1.86 2.32 0.00 0.27 3.18 2.32 0.00 0.27 3.18 2.32 0.00 0.27 3.18 2.53 1.53 2.85 0.58 1.54 3.289 2.03 2.53 1.26	In um. Yrs. 1883 1883 1883 1883 1883 1886 1886 1886 1885 1884 1883 1884 1883 1883 1883 1883 1883 1883 1883 1883	Min Ins. 0.09 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00	Frs. 1881 '70 '81 '81 '87 (2) 1885 '78 '81 1885 '78 '81 '879 (2) 73 '76 '78 '86 '79 '80 (7) 1886 (2) (7) 1886 (2) (2) (3) (3) (3) (4) (3) (4) (3) (4) (4) (4) (5) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7) ()	Ins. Ins. 0.00 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.13 0.00 0.13 0.00 0.13 0.00 0.13 0.13 0.10 0.13 0.14 (T) 0.14 0.17 0.20 0.20 0.21 0.22 0.13 0.11 0.20 0.20 0.12	<i>Ins.</i> 3.85 2.15 1.42 1.24 0.00 1.73 0.28 0.00 2.48 (T) 0.55 0.01 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.73 0.20 1.41 1.29 1.73 0.20 1.73 0.73 0.20 1.73 0.20 1.73 0.73 0.72 1.441 1.29 1.73 0.85 0.00 1.73 0.73 0.72 1.441 1.29 1.73 0.85 0.00 1.73 0.73 0.72 1.441 1.25 0.00 1.55 0.55 0.00 1.55 0	imum. Yrs. 1884 1884 1884 1884 1884 1884 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1884 1885 185	Mini Ins. 0.00	
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(1) Frequently.

(T) Trace of rain-fall.

(²) Generally.

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Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

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1883 |
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0, Santa Clara |

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(†) | 0.20 | 1.46 | 1882
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| 5. Central Point |

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| 8, Los Banos
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| 5, Fort Miller |

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7, Borden | ••••••••••••••••

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| 8, Big Dry Creek. | · · · · · · · · · · · · · · · · · ·

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| 1, King's River (C | enterville)

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| 4, Selma
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| 8. San Benito † | ••••••••••••••••

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(') Frequently. (2) Generally.

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Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

			January	7.		. 	3	Februar	у.				March	•	
Name and number of station.	Aver- age.	Maxi	ոսը.	Mini	num.	Aver age.	Max	ımam.	Mini	mum.	Aver- age.	Maxi	mam.	Mini	naw.
	Ins.	Ins.	Yrs.	Ins.	Trs.	Ins.	In s .	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Γre
65, San Ardo	0.58					5.58					0.17				
66, Kingsburgh	. 1.79	4.90	1884	0.18	18.3	3, 10	6.47	1884	0.72	1883	3.85	5 92	1884	2.12	188
57, Visalia	1. 25	3.25	1878	0.04	1883	1.55	3. 98	1878	0.00		1.15	2.48	1883	0.48	188
88, Fort Babbitt						1.02							 . .		
59, Goshen		2.36	1881	0.00	1883	1.40	3, 80	1884	0 00	1885	1.10	1.71	1884	0.20	187
70, Hanford	1.71	· • • • • • • •				1.62		•••••			1.81		• • · • • • • ·	. .	
71, Lemoore		3.50	1884	0.00	1879	1.13	3.21	1884	0.00	1885	1.09	3.40	1884	0.10	188
72, Tulare		4.75	1875	0.00	1883	1.23	2.97	1884	0.00	1885	0.93	2.64	1884	0.10	187
73, Lewis Valley		2. 71	1884	0.01	1883	1,90	9.04	1884	0.17	1879	1.23	8.54	1884	0.42	187
74, Traver		1.90	1856			1.76	3.05	1887	0.47	18×6	0.69	1.06	1886	0.32	188
75, Bishop Creek		1.03	1886	0.00	1885	0.53	1.20	18-7	0.00	'85 '86	0.48	0.94	1884	0.00	188
76, Camp Independence	1. 22	5.46	1868	0.00	(¹)	0.56	1.13	1867	0.00	(1)	0.52	4.76	1867	0.00	(শ)
77, Keeler		0.49	1886	(T)	1887	0.54	0.93	1887	0.14	1886	0.24	0.60	1886	0.00	188
78, San Miguel	0.52					5.96					0.12	. .			
79, Paso Robles						6.14		. .			0.34				. . .
30, San Luis Obispo		12.10	1875	0.50	1883	3.75	11.91	1878	0.00		2.81	12.41	1884	0.00	'71 '7
31, Port Harford						0.48	. 				1.21				
32, Delano		1.85	1881	0.00	1883	1.22	2.97	1880	0.00	1885	0.85	1.98	1884	0.00	188
3. Sumner	0.83	3.18	1875	0.00	1885	0.94	2,97	1880	0.00	1875	0.67	1.63	1877	0.00	188
4. Caliento	1.36	3.81	1878	0, 04	1883	1.99	4.98	18-4	0.00	1885	1.52	5.00	1884	0.07	188
35, Tehachapi	1.28	3.01	1880	0.10	1885	3.54	8.38	1887	0.14	1877	1.68	4.10	1886	0, 19	187
6. Keene	1.62	4.37	1878	0.17	1883	2.96	7.49	1878	0.04	1886	1.99	4.80	1884	0.65	188
87, Мојате	0.59	1.77	1884	0.00	()	1.33	7.67	1884	0.00	(1)	0.40	2.17	1884	0,00	(1)
38, Fort Tejon	1.29	4.41	1856	0 22	1860	1.69	7.88	1856	0.00	1864	1.84	7.39	1858	0.00	185
89. McClung Ranch		1.40	1882	0.81	1881	0.94	1.32	1882	0.48	1881	0.66	1.35	1881	0.30	188
90. Camp Cady		0.55	1869	0.00	1870	0.50	1.00	1869	0.00	1870	0.56	1.00	1869	0.12	187
91, Daggett						1.44					1.17				
2. Fenner						1.30					1.25				
3. Needles						1.86					2.08				
4. San Bernardino		7.20		0.00			12.20		0.15		1.97	9.98		0.19	
95, Lugonia						3.48					3. 59				
6. Ontario						6,07					2.71				
97, Colton		2.78	1886	0.21	1887		11.38	1884	0.00	'77 '85	1.42	4.05	1884	0.00	'85 '8
8. Rancho de Jurupa	0.95					1.51					3. 12				
99, Riverside	1.12	2.86		0.09	1883	1.97	7.74	·····	0.00	· · · · · · · ·	1.93	6. 36		0.01	
0, San Gorgonio		9.31	1876	0.06	1887		10. 49	1878	0.60	1875	2.99	6.26	1876	0.08	188
01, Ring's Station	4.65	9.31	1876	1.78	1880		10.49	1878	1.86	1881	3.44	6.23	1876	0.55	187
2, Arroyo Grande	2.40					0.77					1.05		-010		
03. Santa Maria						3. 46					0.98				

			April.					Мау.			1		June.		
Name and number of station.	Aver- age.	Maxi	imum.	Min	imum.	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Max	im um .	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yre.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yre
5, San Ardo	0.76					0.05					0.26				
6, Kingsburgh		3.67	1884	1.81	1883	0.89	1.90	1883	0.17	1882	0.40	1.19	1884	0.00	'82 '
7. Visalia		3. 82	1880	0.69	1878	0.30	0.82	1883	0.00		0.02	0.06	1879	0.00	(1
8, Fort Babbitt	0.00					0.00									
9, Goshen	1.39	2.85	1887	0.29	1876	0.36	1.10	1887	0.00	(!)	0.01	0.05	1879	0.00	(
0. Hanford						0.27					0.24				
1. Lemoore		3.35	1886	0.00	1881	0.26	1.03	1887	0.00	(1)	0.20	1.49	1884	0.00	Ċ
2. Tulare		2.62	18-0	0.00	1876	0.31	1.37	1883	0.00	è	0.10	1.02	1884	0.00	· `e
3. Lewis Valley		4. 67	1880	0.38	1881	1.00	3.86	1884	0.08	1882	0.11	0.70	1884	0.00	è
4, Traver		2.27	1887	2.01	1886	0.00	0.00	1004	0.00	1005	0.07	0.14	1887	0.00	18
5. Bishop Creek		0.38	1886	0.04	1885	0.14	0.55	1887	0.00	(*)	0.09	0.35	1887	0.00	Ĉ
6, Camp Independence		0.59	1877	0.00	(1)	0.27	0.76	1876	0.00	6	0.04	0.30	1871	0.00	6
7. Keeler		1.14	1887	0.20	1884	0.41	1.60	1884	0.00	'85 '86	0.22	0.80	1884	0.00	18
8. San Miguel		1.14	1001	0.20	1004	0.24	1.00	1004	0.00	00 00	0.22	0.00	1004	0.00	10
			••••	· • • • • •	•••••	0.24		•••••		••••		·····	•••••		•••••
9, Paso Robles	1.10				••••					••••	0.00				• • • • • •
0, San Luis Obispo	. 2.05	8.78	1880	0.00	(1)	0.35	3. 70	1883	0.00	(')	0.14	2. 26	1884	0.00	(
1, Fort Harford			••••••		••••	0.00		••••		••••	0.00		•••••		
2, Delano		2.40	1880	0.00	1876	0.63	3.58	1883	0.00	(i)	0.02	0.22	1884	0.00	- 0
3, Samner		2.40	1880	0, 00	'75 '76	0.33	1.74	1884	0.00	(1)	0.10	0.80	1884	0.00	- i
4, Caliente		3.53	- 1880	0.64	1881	0.81	4.83	1877	0.00	'82 '89	0.17	1.28	1884	0.00	(
5. Tehachapi	. 1.83	4.57	1886	0.50	1881	0.38	1.73	1883	0.00	(1)	0.13	1.05	1884	0.00	
6. Кеепе	. 2.26	4.07	1880	0.72	1881	0.49	3, 23	1884	0.00	(1)	0.22	1.79	1884	0.00	
7. Mojave	0.25	0. 76	1878	0.00	'77 '83	0.01	0.14	1-85	0.00	(?)	(T)	0.02	1878	0.00	Ċ
8, Fort Tejon		5.37	1858	0.00	1861	0.96	4.62	1856	0.00	1859	0.21	1.20	1858	0.00	Ċ
9, McClung Ranch		1.61	1850	0.74	1882	0.20	0.43	1882	0.00	1≻8t	0.02	0.07	1880	0.00	Ċ
0, Camp Cady.		0. 50	1869	0.00	1870	0.05	0.16	1870	0.00	(*)	(T)	0.01	1869	0.00	ć
1. Daggett		0.00	1000		10.0	0.49					0.00				
2. Fenner						1.09					0.05	1			
3, Needles			••••••		· · · · · · · · · · · ·	0.75		•••••••			0.00		•••••••		
4. San Bernardino.		5.68		0.07		0.44	3. 17	· • • • • • • • • • •	0.00	•••••	0.06	0.59	· • • • • • • • • • • • • • • • • • • •	0.00	
5, Lugonia		0.00		0.01		1.04	0.11	••••	0.00	•••••	0.48	1 0.00		0.00	••
6, Ontario		······	•••••		•••••	0.40			••••	••••••	0.42		•••••	1	• • • • •
	. 2.00	2,99	1878	0.28	1881	0.57	2.90	1884	0.00	(1)	0.08	0.50	1882	0.00	;
7, Colton		_ 2.99	1918	0.28	1991		2.80	1004	0.00	(.)		0.50	1003	0.00	(
8, Rancho de Jurupa		1	•••••		1000	1.14	1 20	•••••	0.00	1881	0.00	0 80	•••••	0.00	••••
9, Riverside		2.15		0.26	1883	0.43	1.79				0.12	0.52	1000		9
0, San Gorgonia	2.92	6 86	1878	0.99	1876	0.93	3, 93	1877	0.00	(1)	0.04	0.26	1878	0.00	9
I, Ring's Station	. 2.82	6.86	1878	0.37	1875	0.79	3. 93	1877	0.00	'75 '79	0.19	1.30	1882	0.00	(
2, Arroyo Grande	1.78		• • • • • • • • •		• • • • • • • •	0.00		• • • • • • •		· • • • • • • •	0.00		• • • • • • • •		• • • • •
3, Santa Maria	. 1.87				• • • • • • • •	0.00			1		0.00				

(¹) Frequently.

(*) Generally.



Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			' Jaly.					August			1	S	eptemb	er.	
Name and number of station.	Aver- age.	Max	cimum.	Min	imam.	Aver- age.	Max	iwam.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yre.	Ins.	Yrs.	Ine.	Ins.	Yrs.	Ins.	Yrs
65, San Ardo	. 0.00					0.00					0.14				
66, Kingsburgh	. 0.00	0.00		0.00		0.00	0.00		0. 00		0.13	0.25	1883	0.00	188
67, Visalia	. (T)	(T)		0.00	(*)	(T)	0. 03	1881	0.00	(*)	0.04	0.21	1882	0.00	(*)
68, Fort Babbitt †	•														
69. Goslen		0.00		0.00	 .	0.00	0.00		0.00		0.12	0.57	1882	0.00	(°)
70. Hanford						0.01					0. 04				
71. Lemoore		0.00		0.00		0.00	0.00		0.00		0.04	0.20	1881	0.00	(*)
72. Tulare		0.07	1877	0.00	(*)	0.00	0.00		0.00		0.02	0.29	1882	0.00	ંગ
73. Lewis Valley.		(T)		0.00	ď	0.00	0.00		0.00		0.03	0.18	1882	0.00	- èi
74. Traver		0.00		0.00		0.00	0.00		0.00		0.13	0.26	1887	0. 00	18
75. Bishop Creek	0 00	0.00		0.00		0.00	0.00		0.00		0.10	0.40	1887	0.00	Ũ
76, Camp Independence		0.35	1870	0.00	(1)	0.18	1.15	1867	0.00	(⁸)	0. 07	0.40	1874	0.00	ંગ
77. Keeler	0.17	0.52	1887	0.00	'84 '85	0.10	0.20	1884	0.00	1887	0.27	1.08	1887	0.00	- H
	- 0.17	0. 02	1007	0.00	04 03	0.00	0.20	1004	0.00	1001	0.58		1001	0.00	(°,
		• • • • • •	•••••		•••••	0.00		•••••	••••••	•••••	0.00	• • • • • • •	•••••		••••••
79, Paso Robles			• • • • • • • •				-	••••				0.40			
80, San Luis Obispo	. (T)	0. 02	••••	U. 00	(?)	(T)	(T)	••••	0.00	(*)	0.03	0.40	1881	0.00	(*)
81, Port Harford	0.00		•••••			0.00		••••		• • • • • • • •	0.00	: ·	• • • • • • • • • • • • • • • • • • • •	· · · · · · · ·	
82, Delano		0.00	• • •	0.00		0.00	0.00		0.00	· • • • •	0.01	0. 05	1882	0.00	(*)
3, Sumner		0. 05	1885	0.00	(*)	0.00	0.00		0.00	••••	0.04	0.55	1887	0.00	- O
84, Caliente	0.01	0.05	1885	0.00	(²)	0.00	0.00		0.00		0.02	0.13	1881	0.00	(*)
35. Tehachapi	. 0.01	0.05	1885	0.00	(*)	0.09	0.64	1884 '	0, 00	(2)	0. 03	0.32	1881	0,00	(*)
6. Кеспо	0.01	0.06	1885	0.00	(?)	(T)	0.02	18+6	0.00	(²)	0.06	0.58	1881	0.00	(*)
7, Mojave		0.71	1885	0.00	()	0.00	0.00		0 00		0.03	0.29	1878	0.00	ંગ
8. Fort Teion	0.01	0. 07	1857	0.00	- Ö	0.16	0.35	1858 .	0.00	1855	2 02	8.58	1859	0.00	185
9. McClung Ranch		0.00		0.00		0.00	0.00		0.00		0.01 :	0.04	1881	0. 00	- Õ
0. Camp Cady	0. 34	0.69	1868	0.00	1869	0.65	1.00	1868	0.30	1869	0.00	0.00		0.00	
01. Daggett				0.00	1000	0.00		1000	v. uu	1000	0.00	0.00	••••	0.00	••••
2. Fenner	0.00	•••••			••••••	0.00	••••••		• • • • • • •	•••••	0.03	0. 06	1883	0.00	188
3, Needles	0.00	•••••	••••••	· • • • • • •	•••••	0.00			••••••	••••••	0.06	1.12	1883	0.00	188
4. San Bernardino		0. 19		0.00	••••••	0.08	1.06		0.00					0.00	
	0.02	0.19	••••	0.00		0.08	1.00		0.00	••••	0.05	0. 53	•••	0.00	••••
5, Lugonia		• • • • • • •	••••••	· • • • • •				•••••	· • • • • • •	• • • • • • • •	0.00	••••	•••••	••• •••	• • • • • •
6, Ontario	0.00		· • • • • • • • •		••••	0.00		••••••••		•••••	0.00		• • • • • • •		
7, Colton	0.00	0.00		0,00		0.02	0. 25	1884	0.00	(*)	0.00	0.00	••••	0.00	••••
8, Rancho de Jurupa	0,00				• • • • • • • •	0.09				• • • • • • • •	0.00		••••••		
9, Riverside	0.00	0.00	•••••	0.00		0.60	3.00	1884	0.00	(*)	0.02	0. 10	1881	0.00	()
0, San Gorgonia	0.08	0. 30	1877	0.00	'75 '86	0.00	0. 00		0.00		0.05	0. 19	1876	0.00	(†)
1, Rings Station	0.16	0.94	1881	0.00	- e)	0.04	0.20	1878	0.00	(,)	0.08	0.43	1875	0.00	(*)
2. Arroyo Grande	0.00					0.00					0.00			 .	
3. Santa Maria	0.00					0.00					0.00				

Name and number of		October	.		Novemb	ег.	1	Decemb	er.		Ye a r.	
station.	Aver-	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.		Maximum.	Minimum.
	Ins.	Ine. Yrs.	Ins. Trs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ine	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ine. Yre.
65. San Ardo	0.37	1		0. 32			2	1	1.00. 1.0.			
66. Kingsburgh		1.19 1882	0.68 1883	0.64	1.12 1882	0.19 1883	0.30	0.66 1883	0.00 1882	14.58	24. 53 83-84*	10.82 82-83
57. Vinalia	0.44	1. 31 1882	0.00 1877	1.02		0.00		5.03 1880			13.10	3.95 78-79
88. Fort Babbitt	0.00			0.85			1.50					
59, Goshen	0.31	0. \$7 1879	0.00 1880	0.77	4.24 1885	0.00'83'84	1.44	4.29 1880	0.08 1882	7.87	10.62 85-86*	4.91 82-83
70. Hanford	0.45			1.62			2 10			11.59		
71. Lemoore	0. 25	0.83 18-2	0.00 (1)	1.12	8.16 1885	0.00'78'83		6.01 1880	0.00 (1)	8.49	15.25 83-84*	1.07 78-79
72. Tulare	0.16	0.72 1882	0.00 (1)	0.44	3.36 1885		0.97	4.50 1880	0. 00 '75 '77		11.65 83-84*	
73. Lewis Valley	0.39	0.88 1882	0.00 1880	1.15	1.62 1879		2. 19	4.91 1880	0.00 1881		24. 82 83-84*	6.35 82-83
74. Traver	0.10			1.10								
75, Bishop Creek	0.04	0.15 1887	0.00 '84 '86	0.02	0.05 1887	0.00 1884	0.30	1.00 1884	0.00 1885	2.02		
76. Camp Independ'ce		1.10 1870	0.00 (1)	0.21	0.66 1875	0.00 (1)		12.19 1867		5. 97	7.06 73-74*	1.63 72-73
77. Keeler	0.27	0.80 1887	0.00 1884	0.18	. 0. 65 1885	0.00 1881		0.70 1884	0.00 1886	3.67		
78. San Miguel	0.37		0.00 1001	0.49	0.00 1005		0.21	0.10 1.01	0.00 10.0	10.15		
9. Paso Robles	0. 21	••••••••••		0.48	0.60 1847	0.37 1889	0. 69			9. 91		
30, San Luis Obispo	0.72	4.28 1874	0.00 (¹)		12.90		4.53	13.93 1871			42.40 83-84*	8 15 76-77
Bl. Port Harford	0.00	1.10 1014	0.00 ()	13. 62			4.12	10.00 10.1	0.00 1010	24, 13	10.10 00-01	0.10 10-11
2. Delano	0.17	0.55 1882	0.00 (1)	0.49	2. 49 1875	0.00 (1)	0.92	2.60 1880	0.00 (1)		11. 52 83-84*	1.41 78-79
3. Sumper	0.08	0. 43 1879	0.00 (*)			0.00 (1)	0 78	3. 35 1884	0.00 (1)	5. 38	9. 10 83-84*	1.41 78-79
4. Caliente	0.46	1.08 1879	0.00 (1)	0.80	8. 18 1885	0. 00 '76 '81	1.49	3. 56 1880	0. 00 '76 '83		18, 15 83-81*	3. 16 78-7
3. Tehachapi	0.42	0.86 1887	0. 00 '77 '85	0.73	3.70 1885	0.00 1876	1.52	5.67 1879	0.00 1876		18.77 83-84*	4.75 779
6. Keene	0 68	2.55 1884	0.00 1877	0.92	3.73 1885	0.00 1878	1.90	5. 22 1884	0.30 1881		24.25 83-81*	5.23 78-79
87. Mojave	0.10	0.95 1877	0.00 (*)	0.37	1.42 1879	0.00 (1)	0.91	4. 19 1879			9.96 83-81*	
8. Fort Tejon	1.00	2.62 1858	0. 05 '55 '56	1.02	3, 12, 1856	0.00 1855	4.32	7.50 1855	0 00 1859		32.97 55-56*	
39. McClung Ranch.	0.14	0.42 1881	0.00 (*)	0.11	0. 27 1831	0.00 1879	1.49	2.22 1879	0.55 1881	5.61	6. 25 79-80*	
0. Camp Cady	0.05	0.10 1869	0.01 1868	0.40	0.60 1869	0.20 1868	0.15	0. 30 1868	0.00 1869	3. 22	0.25 /8-00	
Di. Daggett	0.00		0.01 1000		0.00 1008	0. 20 1000	0.15		0.00 1809	3.97		
2. Fenner	0.00			0.00		· • • • • • • • • • • • • •	2.40				· · · · · · · · · · · · · · · · · · ·	
A. Needles	0.00		· • • • • • • • • • • • •				1. 32					
A. San Bernardino	0.43	1 00	0.00		7. 50		3, 10	8. 80		0.17	37. 51	
6. Lugonia	0. 10		0.00	0.73	1. 50	0.00	1.51	0.00			37. 51	
6. Ontario	0.12		•••••	0.73			3.05			15. 42		· • • • • • • • • • • •
	0.12	0.04 1007	A AA (1)		1 00 1005	0.00.100.100						F 40 00 00
7, Colton 8. Rancho de Jurupa		0.84 1887	0.00 (¹)	0.50	1.92 1885	0.00'70'83	1.20	3.93 1884	0.00 (1)	9.81	23. 35 83-84*	ຸມ. ເ ມ 82–88
e, Rancho de Jurupa 9. Riverside	0.00	0.97	0.00 (1)	0.87	1.34	0.00	1.38			9,37	22. 54	
	0. 27	1.30 1877	0.00 (1)	0.87	1.51 1897		1.38	2.58	0, 20 1882		22. 54	6. 199 02-01
0, San Gorgonia	0.45	1. 30 1877	0.00 (*)	1.70	4. 10 1879	0.00 1876		4.28 1877		18.05	85.74 77-78*	19 00 74 7
1, Rings Station		1. 30 77 81		12.38		0.00 1876	8.33		0.00 1876			
2, Arroyo Grande	0.00	•••••••	· • • • • • • • • • • • •	4.68						22. 51		
8, Santa Maria	0.03	••••••	•••••	4.08			2.81			14. 81	1	····

† No data. *Seasonal rain-fall, September to August, inclusive. (1) Frequently. (T) Trace of rain-fall. (*) Generally. --8

			Januar	у.				Februa	ry.				March		
Name and number of station.	A ver- age.	Maxi	mum.	Min	imum.	Aver- age.	Max	imum.	Mini	mum.	Aver- age.	Max	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yre.	Ins.	Yrs.	Ins.	Ins.	Y 78 .	Ins.	Yrs.
304, Guadaloupe			••••		••••	2.25		•••••		•••••	1.42	•••••	•••••	• • • • • •	•••••
306, Point Conception		5.21	· • • • • • • • • • • • • • • • • • • •	0.00		3. 81	12.95		0.00		2.73	9.44	1884	0.35	
307, Santa Barbara		14.84	1875	0.25	1870	3.88	11.73	1878	0.00	1877	1.90	9.77	1884	0.02	187
308, Nordhoff	. 4.18					6.40					4.50				
309, San Buenaventura					•••••••	3. 57		• • • • • • • • •			2.37				 .
310, Los Angeles	. 3.93	17. 22	1875	0.00	1872	3. 76	10.74	1884	0.00	1875	1.90	9.85	1884	0.05	187
311, Ravenna	. 1.61	5.30	1886 1884	0.14	1887	2.68	9.50	1884	0.00	1885	2.11	6.06	1884	0.00	188
312, Newhall	. 2.09	6.66 6.70	1884	0.00	1887 1887	3.55	14.53 10.60	1884 1884	0,00 (T)	'77'85 1885	2.27	9.73 10.51	1884 1884	0.00 (T)	1879 188
314, Cahuenga Valley		7.65	1000	0.84	1007	5.08	10. 24	100-1	闭	1000	2.95	9.43		0.12	100
315, El Monte	6.93	1.00	••••	0.01	••••	4.16	10. 24	••••	(1)		2.60	0. 10	• • • •	0.12	•••
316. Spadra	2.80	9.60	1875	0.00	1885	2. 81	-8.80	1884	0.00	'77'83	1.77	7.00	1884	0.00	'85 '8'
317, Santa Monica	. 2.18	5.30	1886	0.20	1887	3.32	7.07	1887	1.10	1886	0. 61	1.20	1886	0.26	188
318, Downey	. 1.28				• • • • • • • • • •	2.98		• • • • • • • • •	1		1.69		. 		
319, Drum Barracks		5.10	1868	0.52	1870	1.26	2.05	1868	0.34	1867	2.24	7.85	1867	0.00	186
320, Orange			•••••••••		••••••••	1.83		••••••••		••••	1.18				••••••
321, Anaheim Barracka		4.63	1886	0.30	1882	2.75	10.58	1884	0.00	1885	1.74	6.70	1884	0.00	'85 '8'
322, Alosta	. 4.06	10.05	1878	0.45	1883 '81 '82	6. 19 1. 21	21.97 5.96	1884 1884	0.00	1881	5.17	16.27 3.05	1884 1884	0.32 0.20	'80 '8
324, Cabazon		1.40	1019	0.00	01 02	0.12	5.80	1004	0.00	1001	0.00	5.05	1004	0.20	00.0
325. Indio		1.55	1882	0.00	(1)	0.61	8.16	1884	0.00	()	0.12	0.62	1884	0.00	(*)
326, Fall Brook		1.00	1002	0.00		3. 74	0.10	1001	0.00		2.97	0.02	1001	0.00	
327, San Luis Rey		6.04	1876	0.09	1851	3. 53	7.90	1878	0.95	1851	2.00	3.12	1876	0.21	185
328, Escondido	. 3.27	7. 33		0.45		3. 23	9.83		0.60		2.54	8.66		(T)	
329, Julian	. 5.67	10.04	1883	1.50	1880	7.94	20.63	1884	3.38	1882	9.85	15.63	1884	7.13	188
330, Mammoth Tank		1.29	1882	0.00	(1)	0.43	1.38	1887	0.00	(1)	0.09	0.25	1886	0.00	(4)
831, Poway	. 2.65	6.40	1882	0.05	1887	2.33	9.40	1884	0.35	1885	2.06	6.96	1884	0.34	188
332, Viejaa	. 7.04		1000		· · · · · · · · · · · · · · · · · · ·	5.63		1050			5.97		1070		
333, Fort Yuma 334, San Diego		1.74 6.95	1862	0.00	(¹) 1850	0.40	2.09 9.05	1859 1884	0.00	(1)	0.18	0.90	1873 1884	0.00	(²) 185'
335, Campo		3.10	1882	1.74	1881	2.80	5.45	1878	0.53	1881	2.38	5.00	1881	0.60	187
336, Otay Mesa	2.32	0.10	1002		1001	2.46	0. 20	1010	0.00	1001	1. 73	0.00	1001	0.00	101
337. Oakwood	4.78	6.17	1876	3.41	1877	2.18	3.78	1876	0.59	1877	2. 52	2.77	1876	2.28	187
338, Paradise Valley	0.46					4.08									

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			April	•				Мау.					June.		
Name and number of station.	Aver- age.	Maxi	mum.	Mini	num.	A ver- age.	Maxi	imu m .	Mini	mum.	A ver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yre.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yra.
04, Guadaloupe	2.61					0.00					0.00				
05, Los Alamos	2.06					0.23					0.00		•••••		
06, Point Conception	1.48	2.81	1880	0.00	(1)	0.11	0.40	1878	0.00	(!)	0.16	1.25	1884	0.00	(²)
07, Santa Barbara	1.61	5.73	1880	0.00	1873	0.33	2.79	1883	0.00	(¹)	0.12	1.62	1884	0.00	(*)
08, Nordhoff	3.48		•••••	· · · · ·	• • • • • • • •	1.25		• • • • • • • • •	. .	• • • • • • •	0.48	- -	•••••		 .
09, San Buenaventura	1.48				1050	0.38				••••	0.27				
10, Los Angeles	1.34	5.06	1880 1886	0.00	1873	0.35	2.36	1883	0 00	(¹)	0.09	1.30	1884	0.00	(2)
11, Ravenna 12, Newhall	1.38	2.70 4.27	1886	0.00	1883 1883	0.09	0.20 2.28	1884 1883	0.00	'81 '86	0.27	1.65	1884	0.00	()
13. San Fernando	2.00	4. 27 3. 48	1884	0.10	1883		2.28		0.00	<u>e</u>	0.16	1.67	1884	0.00	(*)
14, Cahuenga Valley		3.48		0.13		0.43	2.12	1883	0.00	(')	0.10	0.00 0.81	••••	0.00	• • •
15, El Monte	0.90	1.00	••••	0. 20	· • • •	0.97	3.14	••••	0.00	• • • •	. 0 0	0.81	••••	0.00	• • •
16, Spadra	1.31	4.17	1880	0.00	1875	0. 20	1.40	1883	0.00	(¹)	0.06	0.75	1884	0.00	(²)
17. Santa Monica		2.72	1880	0.58	1885	0.36	1.40	1887	0.00	180 86	0.00	0.00	1004	0.00	
18, Downey		2.12	1000	0.00	1000	0.04	1.90	1001	0.00	00 00	0.00	0.00	• · • •	0.00	•••
19, Drum Barracks	0.37	1.25	1868	0.00	1870	0.02	0.09	1864	0.00	(*)	1. 0.00	0.00	••••	0.00	
20, Orange	1.55	1.20	1000	0.00	1010	0.33	0.05	1004	0.00	0	0.00	. 0. 00	• •	0.00	•••
21, Anaheim Barracks	1.48	9.74	18-0	0.06	1881	0.54	2.78	1883	0.00	(¹)	0, 13	1.28	1884	0.00	(*)
22, Alosta		6.55	1884	1.43	1883	0.78	2.32	1883	0.00	1881	0.42	2.54		0.00	က်
23, Whitewater	0.48	2.35	1878	0.00	(1)	0.00	0.01	1880	0.00	(*)	0,00	0.00		0.00	
24, Cabazon	1.20	2.00	1010	0.00	• • •	1.10		1000	0.00	()	0.00				
25, Indio	0.10	0.44	1884	0.00	(*)	0.05	0.46	1884	0.00	(2)	0.00	0.00		0.00	
26, Fall Brook	2.24			0. 20		0.53					0.11				
27, San Luis Rey.	2.39	5.66	1887	0.38	1876	0.09	1.88	1877	1 0.00	1876	0 20	0.47	1878	0.00	187
28, Escondido	1.84	5.66		0.30		0 53	2.00		0.00		0.22	1.05		0.00	
29 Julian	5.99	10.63	1884	2.75	1881	0.73	3.63	1884	0 00	(2)	0.00	0.00		0.00	
30, Mammoth Tank	0.11	0.80	1881	0.00	(1)	0.02	0, 19	1884	0.00	(*)	0.00	0.00	• • • •	0.00	
31, Poway	2.16	4.81	1884	0.90	1882	0.51	2.26	1884	0.00	1880	0.09	0.44	1884	0.00	(*)
32, Viejas	0.87				. .	"	1				0.00				
33, Fort Yuma	0.10	1.00	1869	0.00	(2)	0.02	0.12	1877	0.00	(²)	(T)	0.05	'72 '82	0.00	(*)
34, San Diego	0.90	2.91	1878	0.00	1857	0.41	2.17	1884	0.00	'50'58	0.07	0.68	1850	0.00	(4)
35, Campo	2.58	5.75	1878	1.08	1877	0.27	0.91	1877	0.00	'79`80	0.05	0.26	1882	0.00	(1)
36, Otay Mesa	1.86				. 	0.69				. 	0.08		. . .		
37, Oakwood	0, 55			1	. . .	1.11		• • • • • • • • •		. .	0.00	0.00		0.00	
38, Paradise Valley	0.18				. . .	1									

(1) Frequently.

(²) Generally.





Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			Jaly.					August	t.			8	eptemb	er.	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	A ver- age.	Maxi	imum.	Mini	mum.	Aver- age.	Max	imum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yre.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
304, Guadaloupe	0.05	. .	•••••		• • • • • • • •	0.00	• • • • • •	•••••		••••••	0.00				
305, Los Alamos	0.00	· • • • •	• • • • • • • • •		• • • • • • • • •	0.00		•••••	1		0.00				
306, Point Conception		0.00	• • • • •	0.00	· · · · ·	0.02	0.20 0.02	1872	0.00	(²)	(T)	0.02	1881 1881	0.00	(*)
307, Santa Darbara	0.00	0.00	••••	0.00	•••••	(T) 0.00	0.02	18/2	0.00	(*)	0.04	0.44	1991	0.00	(²)
309, San Buenaventura		••••••	•••••		••••••	0.00	•••••	••••••		••••••	0.00		••••••	· • • • • •	••••••
310. Los Angeles		0. 03	1887	0.00		0.08	1.06	1873	0.00	(²)	0.01	0.15	1887	0.00	(²)
311. Ravenna		0.17	1886	0.00	(²) (²)	0.03	0.25	1884	0.00	8	0.10	0. 60	1887	0.00	8
312. Newhall		0.02	1885	0.00	(2)	0.00	0.00	1004	0.00		(T)	0.02	1887	0.00	6
313, San Fernando		0.19	1886	0.00	(2)	(T)	(T)	1886	0.00	(*)	0.00	0.00	1001	0.00	
314, Cahunga Valley	0.00	0.00		0.00		0.04	(1)	1000	0.00		0.02	0.10		0.00	
315. El Monte		0.00		0.00	•••	0.50		•••••••	0.00	•••••	0.00	0.10		0.00	••••
B16. Spadra		0.01	1876	0.00	(*)	0.01	0.12	1885	0.00	(*)	0.01	0.06	1875	0.00	(⁹)
317. Santa Monica	0. 00	0.00		0.00		0.00	0.00		0.00		0.08	0. 30	1887	0.00	ම
318, Downey						0.38					0.00				
319, Drum Barracks	0.05	0.25	1868	0.00	(*)	0. 24	1.20	1867	0.00	(*)	0_00	0.00		0.00	
320. Orange	0.00					0.07					0.00				
321, Anaheim Barracks		0.00		0.00		(T)	(T)	1886	0.00	(2)	(T)	(T)	1887	0.00	C
322. Alosta		0.00		0.00		0.00	0.00		0.00		0.00	0 00		0.00	
323, Whitewater	0.00	0.00		0.00		0.03	0.25	1880	0.00	(*)	0.00	0.00		0.00	
324, Cabazon	0.00					0.00	0.00		0.00		0.00	0.00		0.00	
325, Indio	0.00	0.00		0.00		(T)	(T)	1887	0.00	(*)	(T)	0.05	1887	0.00	(*)
326, Fall Brook					 .	0.05					0,05				
327, San Luis Rey		0.00		0.00		0.00	0.00		0.00		0.01	0.03	1877	0.00	'50'7
328, Escondido	0.00	0.00		0.00		0.02	0.20		0.00		0.25	2.50		0.00	
329, Julian		0.00	 .	0.00		0.00	0.00		0.00		0.00	0.00		0.00	
330, Mammoth Tank		0.51	1878	0.00	(*)	0.13	0.65	1878	0.00	(*)	0.03	0. 33	1887	0.00	(*)
331, Poway		0.06	1880	0.00	(2)	0.03	0.16	1880	0.00	(')	0.08	0.63	1887	0.00	(*)
332, Viejas			•••				· • • • • •				0.03		• • •	· · · · · · · ·	
833, Fort Yuma		1.62	1868	0.00	(*)	0.67	2.40	1874	0.00	(*)	0.53	8.60	1862	0.00	(*)
334, San Diego		0.12	1874	0.00	(*)	0.19	1.95	1873	0.00	(2)	0.03	0.39	1875	0.00	(!)
335, Campo		2. 32	1878	0.00	1879	0.37	1.27	1881	0.00	77 '79	0.01	0. 02	'81 '82	0.00	(²)
336, Otay Mesa			•••••	· · · • • •	•••••	2.15	. .	••••••			0.00		• • • • • • •		
337, Oakwood			• • • • • • • • •	· · · · · ·	•••••	0.00				• • • • • • • • •	0.20	· • • • • •	• • • • • • • • •		
338, Paradise Valley	• • • • • • • •				• • • • • • • •	1.94		• • · • • • • • •		• • • • • • • • •			••••••		

		Octobe	r.		Novemb	er.		Decembe	er.		Year.	
Name and number of station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Mesn.	Maximum.	Minimum.
304, Guadaloupe	Ins. 0.07	Ine. Yre.	Ins. Yrs.	Ins. 4.73	Ins. Yrs.	Ins. Yrs.	Ins. 2 05	Ins. Yrs.	Ins. Yrs.	14.83	Ins. Yrs.	Ins. Yrs.
305, Los Alamos 306, Point Conception 307, Santa Barbara	0.37 0.46	1. 28 1. 91 1874	0.00 (1)	10, 82 0, 44 1, 49	1. 18 1879 9. 84 1885	0.00 (¹) 0.00 (¹)	2. 04 1. 87 3. 59	5.06 1877 12.67 1867	0.20 1876 0.00 '74 '76		32. 54 83-84* 34. 47 83-84*	
308, Nordhoff 309, San Buenavent'a 310, Los Angeles	0.42 0.44 0.35	1. 81 1874		4,89 1.96 1.49	7. 57 1875	0.00 (1)	2.24 2.53 2.73	8.40 1880		16.87 16.03	32. 16 83-84*	3.97 71-72
311. Ravenna 312. Newhall 313. San Fernando	0.41 0.26 0.36	1. 40 1887 1. 23 1881 0. 95 1881	0.00 1886 0.00 (¹) 0.00 '80 '85	1.09 1.45 1.47	5. 20 1885 9. 01 1885 7. 94 1885	0.00 1883 0.00 (¹) 0.00 1883	1.92 2.64 2.64	5. 91 1879 9. 23 1879 6. 29 1879	0.00 1882 0.00'76'82 0.00 1882	14.72 15.29	27. 27 83-84* 42. 11 83-84* 18. 91 77-78*	3.04 76-77
314, Cahuenga Valley 315, El Monte 316, Spadra	0.45 0.37 0.33	1.18 0.95 1883	0.06	2.36 2.98 1.06	7.45 5.72 1875	0.00 0.00 (¹)	2.51 1.96 1.68	3.80 6.01 1880	1.65 0.00 1882	12.10	30. 43 24. 50 83-84*	
317, Santa Monica 318, Downey 319, Drum Barracks	0.01 0.00 0.60	0.05 1879	0.00 (2)	2.47 0.72 0.96	7.20 1885 2.53 1864	0.10 1886 0.27 1865	1, 39 0, 87 2, 89	2.51 1879 9.26 1867	0.27 1886	12.49 10.84 10.61	17.30 85-86*	
320, Orange 321, Anaheim Bks 322, Alosta	0.02 0.34 1.01	1.12 1883 1.95 1883	0.00'77'86	1.75	3.90 1879 6.32	0. 00 (¹) 0. 15 1881	1.22 1.90 2.97	4.92 1880 7.57 1880	0.00 '82 '86 0.00 1882	25.45	26. 17 83-84* 60. 62 83-84*	12.09
323, Whitewater 324, Cabazon 325, Indio	0.13 0.00 0.01	0.78 1883	0.00 (²) 0.00 (²)	0.38 0.00 0.24	1.62 1879 1.00 1882	0.00 (¹) 0.00 (¹)	1.06 2.05 0.45	2.08 1879 1.98 1877	0.00'81'82 0.00 (²)	4.62 1.92	12.81 83-84* 5.60 83-84*	 . .
326, Fall Brook 327, San Luis Rey 328, Escondido	0.11 0.48	0.20 1850 1.45	0.00 0.05 1876	1.36 6.69 1.39	16.00 1876 4.68	0.78 1877 (T)	2.42 2.08 1.92	4.03 1877 4.96	0.07 1876 0.07	17.70 21.28 15.69	32.05	7.70
329, Julian 330, Mammoth Tank 331, Poway	0.55 014 0.55	2.75 1883 0.6# 1879 1.59 1883	0.00 (²) 0.00 (²) 0.00 1887	3.37 0.16 0.94	8.81 1875 1.01 1885 2.75 1879	0.00 1883 0.00 (²) 0.00 1883	4.68 0.49 2.51	6.88 1881 1.64 1877 5.91 1884	1.67 1875 0.00 (¹) 0.13 1886	38.78 1.85 13.95	61. 62 81-84* 3. 11 83-*4* 29. 45 83-84*	
332, Viejas 333, Fort Yuma 334, San Diego	0.15 0.29	0.75 1878 2.01 1883	0.00 (²) 0.00 (¹)	0.41	1.83 1859 2.82 1850	0.00 (*) 0.00'72'78	2.02 0.32 2.16	1.03 1858 6.32	0.00 (²) 0.13 1882	3.40 10.26	7.04 68-69* 25.97 83-84*	0.85 79-80
335, Campo 336, Otay Mesa 337, Oakwood	0.41 0.36		0.00 1879	1.13 1.45 0.07	3.00 1879	0.11 1881	2.21 1.30 0.08	4.85 1880	0. 24 1881	15.17 14.50 11.87		
338, Paradise Valley.	•••••			0.37			0.90				•••••	

* Seasonal rain-fall, September to August, inclusive.

(1) Frequently.

(*) Generally. (T) T



RAIN-FALL OF THE PACIFIC COAST AND

IDAHO TERRITORY.

			T				Record.		
No.	Name of station.	County.	Lat- itude.	Lon- gitude.	Eleva- tion.	Length.	From—	To (inclu- sive)—	Remarks as to observers and miss- ing records.
339	Fort Sherman	Kootnai Shoshone.t	。, 47 45	° / 116 46	Feet.	Yre. M. 5 9		June, 1887	Signal Service. Apr., 1887.
340	Fort Lapwai	Nez Perces	46 24	116 48	2, 000	17 6	Jan., 1864	June, 1884	Signal Service and U. S. post hos pital. Sept., 1865; May to Nov., 1866; Jan., June to Sept., inclusive, and Dec., 1867; Mar., Apr., 1868; July, Sept., 1877; Sept., Nov., 1876; Jan., June, Dec., 1879; Feb., 1880; Aug., 1881.
841	Lewiston	do Idaho. † Lemhi. † Washington. † Custer. †	46 24	117 01		60	Jan., 1880	Dec., 1885	Signal Service.
342	Eagle Rock	Bingham Boisé. †	47 35	116 05		26	Dec., 1880	May, 1883	До.
143	Fort Boisé	Alturas. † Ada	;1 37	116 08	1, 998	22 4	Mar., 1864	No v., 18 87	Signal Service and U. S. post hospital. Jan., Feb., July, Sept., 1864; June to Dec., 1866, inclusive; Feb., Mar., June to Nov., 1867, in clusive, Nov., 1987
344 345 346	Camp Lyon Camp Three Forks Fort Hall		43 07 42 40 43 10	116 55 117 25 112 00	5, 000 4, 870	1 0 2 0 4 9	Oct., 1867 Jan., 1868 Ma [.] ., 1871	Dec., 1869	clusivo: Nov., 1887. Do. Do. U.S. post hospital. Record much broken. Oct., Dec., 1871; Jan. Mar., Aug., Sept., 1872; Mar. Apr., Dec., 1873; Jan. to Mar., 1874, inclusive: July, 1875, to June, 1876, inclusive; Sept., 1876 to July, 1879, inclusive; Mar., Nov.,
147 148	Camp Conner Albion	Cassia Bear Lake. †	42 35 42 27	111 30 113 35		0 3 0 10	Jan., 1865 Sept., 1884	Mar., 1865 Jnne, 1885	1880. U. S. post hospital. Dr. George M. Lucas.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

i No data.



IDAHO TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

•			Januar	y .			I	febru a r	у.	,			March	•	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yre.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yre
39, Fort Sherman	3.05	4.18	18+6	1.47	1883	1.70	3. 27	1882	0.70	1883	1.40	3.31	1887	0.14	188
40, Fort Lapwai		4.06	1883	0, 0 0	1866	1.48	4.06	1884	0.13	1865	1.68	4.82	1877	0.24	1870
41, Lewiston		4.46	1881	0.33	1880	2.02	4.33	1881	0. 20	1880	1.07	8.21	1883	0.29	188
42. Eagle Rock	' 3. 38	4.41	1882	2.08	1883	2.92	5.14	1881	1.25	1882	1.61	3.45	1882	0.41	188
43, Fort Bois6	2.48	5. 29	1875	0.90	1880	1.54	6.49	1872	0.12	1869	1, 82	7.66	1871	0.03	188
44. Camp Lvon	1.81		• • • • • • • •		 . .	0.92					1.58				
45, Camp Three Forks	1.80	1.95	1869	1.64	1868	0.90	1.14	1869	0.66	1868	2.67	8.01	1869	2.33	186
46, Fort Hall	0.65	0 70	1880	0.20	1873	1.14	1.05	1873	0.61	1872	1.13	1.13	1871	r	
47, Camp Conner	. 1.10	· • • • • • •		· . .	 . 	0.90					0.04				
48. Albion						2.00					0.19				

			April.			:		May.					June.		
Name and number of station.	A ver- age.	Max	imum.	Min	imum.	Aver age.	Max	inum.	Mini	mum.	A ver- age.	Maxi	loum.	Mini	nam.
 339, Fort Sherman 340, Fort Lapwai 341, Lewiston 342, Eagle Rock 343, Fort Boisé 344, Camp Lyon 345, Camp Three Forks 346, Fort Hall 347, Cam Pall 348, Albion 	2. 41 1. 69 1. 19 0. 74 0. 94	2.40 3.00 2.60 3.35 4.73 1.23 1.50		0.00 0.10 0.19 0.76 0.09 0.24 0.00			<i>Ins.</i> 3. 00 3. 91 3. 02 1. 12 3. 14 2. 56 3. 00	Frs. 1883 1877 1885 1885 1885 1869 1874	<i>Ins.</i> 0.66 0.26 0.23 0.30 0.00 	Yrs. 1884 1881 1881 1882 1865 1868 1875	<i>Ins.</i> 1. 20 1. 64 2. 38 0. 80 0. 78 1. 58 0. 90 0. 90 1. 02	<i>Ins.</i> 2. 40 3. 86 5. 66 1. 09 1. 15 1. 60 2. 20	Yrs. 1887 1884 1884 1881 1868 1868 1868 1872	<i>Ins.</i> 0. 16 0. 08 0. 01 0. 52 0. 15 0. 20 0. 10	Yrs. 1882 1882 1883 1883 1882 1873 1869 1875

			July.		ļ			Augus	t.			8	eptemb	er.	
Name and number of station.	A ver- age.	Max	imum.	Mini	inum.	Aver- a_e.	Max	imum.	Min	ima m .	Aver age.	Mari	mun.	Min	imum.
	Ins.	Ine.	Yre.	Ins.	Yrs.	Ins.	Ins.	- Yrs.	Ins.	Yrs.	Ins	Ins.	Yrs.	Ins.	Yrs.
339, Fort Sherman	0.43	1.67	1884	0.00	- {1882} - }18≺3√	0. 05	0.17	1884	0. 00	{1882 { }1::86 }	1. 10	1.95	1881	0.08	1882
840, Fort Lapwai	0. 41	1.78	1880	0. 00	\$18707 \$18707	0, 44	1.20	1879	0.00	\$1868} 18785	0.84	2. 44	1879	0. 18	1875
841, Lewiston	0. 74 0. 76	1. 87 1. 21	1880 1881	(T) 0.32	1883 1882	0.32 0.51	1.09 0.95	1880 1881	(T) 0.07	1883 1882	0.63 0.58	1. 17 1. 17	1881 1882	0.20 0.00	1880 1881
843, Fort Boisé	0.23	1.10	1869	0 . 0 0	(1868) 1872 (1875)	0. 20	1.65	1873	0.0 0	{1878} {1871}	0.35	2. 11	1884	0. 0 0	{1869 {1870
344, Camp Lyon 345, Camp Three Forks	0. 15 0. 52	0 64	1869	0. 39	1868	0.00 0.13	0. 24	1869	0.02	1868	0. 19 0. 18	0.25	1869	0. 12	1868
346, Fort Hall	1.65	3. 00	1880	0. 10	1873	1.01	1.76	1873	0. 00	1876	0. 38	0.80	1871	0.00	\$1873 \$1879
347, Camp Conner † 348, Albion		. 	•••••	. 	•••••••••		. 	•••••••••		•••••	1.00	••••	· · · · · · · · · · · · · · · · · · ·		

		October		÷	Novemb	e r .		Decembe	PT.	τ.	Year.	
Name and number of station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum	Minimum.	A ver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.
339. Fort Sherman 340. Fort Lapwai	1. 20 1. 75 1. 60 0. 84 0. 49 0. 12 1. 58	Ins. Frs. 2. 82 1884 4. 26 1876 2. 83 1882 1. 71 1881 4. 06 1883 0. 24 1868 1. 60 1879	0.00 1869 0.20 1872	2. 73 2. 14 1. 52 1. 20 1. 28 1. 35 1. 78 3. 29		0.25 1×68 0.36 1884 0.49 1982 0.02 1868 0.46 1868 0.59 1871	2.68 2.14 3.10 2.18 2.12 3.94 1.46 1.89	Ins. Frs. 4. 29 1886 5. 71 1866 6. 31 1840 4. 50 1880 5. 96 1871 2. 14 1868 2. 40 1879	1.48 18×5 0.20 1×70 1.07 1881 0.80 1881 0.01 1871 0.77 1869 0.45 1872	16. 73 18. 25 18. 67 14. 74 15. 01 12. 88 17. 51	21. 30 1886 24. 22 1882 21. 71 1884 21. 31 1881 25. 80 1871	Ins. Frs. 13.99 1882 10.33 1873 14.74 1882 18.05 1882 6.44 1868 9.67 1873

† No data.

BAIN-FALL OF THE PACIFIC COAST AND

NEVADA.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			La	at.	Lon		Eleva-			Re	cord.		- Remarks as to observers and miss-
No.	Name of station.	County.	itu		gitud		tion.	Len	gth.	Fro	m	To (inclu sive)—	ing records.
349 350 351	Reno	Washoe do	39	, 36 31 25	o 119 119 119	, 16 42 35	Feet.	Yrs. 6 6 6	M. 4 3 2	Jaly, July, July,	1881	Nov., 18 Nov., 18 Nov., 18	7 Central Pacific R. R. Feb., Oct., 1883 7 Central Pacific R. R. May, 1883
352	Camp McDermit	Humboldt	41	58	117	4 5	4, 700	18	10	Feb.,	1866	Dec., 18	broken. Jan., Mar. to Aug., 1866 inclusive: July to Dec., 1867, in clusive: Jan., Feb., Mar., July Oct., 1868; Oct., 1869; Mar., 1870 Dec., 1873, to Nov., 1874, inclusive Feb., 1876; Feb., 1878; Jan., 1880
353	Camp Winfield Scott.	do	41	38	117	28	•	2	8	Jan.,	1867	Apr., 18	Jan., Nov., Dec., 1887.
354		do		30	119	05	6, 000	2	0	Nov.,	1865	Oct., 18	
355	Golconda	do			117	20		6	3	July,	1881	Nov., 18	(JUDE, 1884 ; NOV., 1885.
356 357		do do			117 118		•••••	8 6	11 0	July, July,		Dec., 18 Nov., 18	 [7] Signal Service. Dec., 1880; June 1883, to Nov., 1884, inclusive. [7] Central Pacific R. R. Record muci broken. June, Aug., 1884; Jan.
358 359	Otego	Elkodo	41	11	114 114	32		5	1	July, July,	1881	Nov., 18 Aug., 18	7 Central Pacific R. R. Year 1885 June. 1886.
360 361	Toano Wells	do	41 41	08 05	114 114	23 52			4 2	July, July,		Nov., 18 Nov., 18	7 Central Pacific R. R. Mar 1883
3 62	Halleck	do	40	59	115	30		5	10	July,	1881	Nov., 18	Mar., 1885; Nov., 1886. 7 Central Pacific R. R. Record mucl broken. June, July, 1883; Sept. 1884; Aug., Sept., 1885; Nov., 1896 Mar., 1887.
363	Elko	do	40	51	115	40		6	1	July,	1881	Nov., 18	
364	Camp Halleok	đo	40	49	115	20	6, 000	10	7	Nov.,	1867	Oct., 18	 1884; Dec., 1886. U. S. post hospital. Record mucl broken. Oct., Nov., Dec., 1869. June, 1870; July, Aug., 1871. June, Sept., Oct., Nov., Dec., 1872. Feb to May, 1873. inclusion. 1872.
365 366		do Lander	40	34	116 117	05		6	4 8	July, July,	1881	Nov., 189 Nov., 189	7 Central Pacific R. R. May, 1885 Sept., 1887.
366 <u>1</u> 367	Austin Palisado	do Eureka	39 40	20 35	117 116	$\begin{array}{c} 03\\ 12 \end{array}$		2 6	9 3	Dec., July,	1877 1881	Sept., 188 Nov., 188	7 Central Pacific R. R. June, 1882
368 369 370	Eureka	do do White Pine	89	29	116 116 115	00	6, 153	6 0 2	5 2 0	July, Jan., May,	1880	Nov., 188 Apr., 188 Oct., 186	 Morris Bien. Feb., Mar., 1880. U. S. post hospital. Record much broken. June to Aug., 1863, inclu sive; Oct., 1863; Oct., 1864; Jan to May, 1865, inclusive; Jan. and Feb., Apr. to Dec., 1866, inclusive
3701 371	Hemilton Hot Springs	do . Churchill	39 39	16 45	115 119	28 00		8 5	2 10	Aug., July,	1877 1881	Sept., 188 Nov., 188	
872	Fort Churchill	Lyon	39	20	119	05	4, 284	3	9	Jan.,	1862	Мау, 186	
373	Carson City	Storey.† Ormsby Nye.†	39	12	119	40		9	9	Jan.,	1875	Dec., 188	6 Charles W. Friend. Record much broken. May, 1877, to July, 1878 inclusive: Sept., 1878, to July 1879, inclusive; Sept., 1879.
874	Hawthorne	Nye.† Douglas.† Esmeralda	38	30	118	30	· • • • • • • • • •	3	3	Apr.,	1884	Oct., 188	 Central Pacific B. R. Record much broken. May, 1885; Jan., Nov. Dec., 1886.
375 376	Pioche Tem-pah-ute	Lincoln do	37 37	54 25	114 115			5 0	10 3	Aug., Dec.,		May, 189 Mar., 187	3 Signal Service.

+ No data.



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THE WESTERN STATES AND TERRITORIES.

NEVADA-Continued.

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NEVADA-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

		ė	Januar	у.			1	Februar	у.				March.		
Name and number of station.	Aver- age.	Maxi	mum.	Min	imum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	imum.	Mini	mum.
849, Wadsworth	Ins. 0.60	Ins. 1.62	Yrs. 1886 1886	Ins. 0.20	Frs. 1883 1885	Ins. 0.66 0.87	Ins. 2.52	Yrs . 1887	Ins. 0.03	Yre. 1885	Ins. 0.56 0.78	<i>Ins.</i> 1. 10	Frs . 1882	Ins. 0.00	Yrs. 1887 '85 '87
350, Reno	0.32	3.00 0.56	1884	(T) 0.05	1883	1.16	2.90 4.48	1887 1886	0.00 0.00	'82 '85 1882	0.68	2.50 2.00	1882 1883	0. 00 0. 10	1885
852, Camp McDermit	1.70	6.72	1884	0.00	1880	1.41	4.80	1884	0.20	1882	1.28	5.86	1883	0.00	1886
353, Camp Winneid	4.29	8.26 8.00	1868 1868	1,65	1869 1866	2.31 0.41	4.50	1870	0. 54	1874	1.54	2.08 9.22	1869 1868	0.50 2.78	1867 1866
855, Golconda	0.39	0.69	1884	0.09	1887	0.57	1.15	1887	0.02	1886	0.67	1.81	1884	0.05	1885
356, Winnemucca	1.01	3, 08 1, 20	1881 1884	0.21 0.00	1878 '83 '87	1.01 0.65	1 59 1.25	1881 1887	0.17	1883 1885	0.75	1.36 2.27	1678 1882	0.20	1885 '85 '87
858. Tecoma	0.54	1.00	'86 '87	0.10	1884	0.48	0.87	1884	0.00	1882	0.46	0.93	1884	0.00	1885
359, Otego	1.21	2.05	1886	0.90	1882	1.00	1.70	1887	0.40	1883	0.86	1.45	1886	0.00	1883
360, Toano	0.87	1.18 2.55	$1887 \\ 1882$	0.50	1883 1884	0.66	1.55 1.05	1887 1883	0.40	1886 1887	0.87 1.05	2.50 2.65	1883 1882	0.00	1885 1887
862, Halleck	0.86	2.16	1886	0.05	1885	0.90	0.24	1886	1.85	1887 (¹)	1.14	2.06	1882	0.04	1885
852, Camp McDermit. 353, Camp McGarry. 354, Camp McGarry. 355, Golconda 356, Winnemucca. 357, Hnmboldt 358, Tecoma. 359, Otego. 360, Winnemucca. 360, Vinnemucca. 357, Hamboldt 358, Tecoma. 360, Otego. 361, Wells. 362, Halleck. 364, Camp Halleck.	1.06	0.40	1887 1877	0.00	(¹) 1872	0.83	0.31 3.52	1881 1878	0.00	(¹) 1870	0.68	1.00	1884 1876	0.00	1866 1872
864, Camp Halleck	1. 34	2.13	1886	0.61	1887	1.12	2.00	1887	0.42	1886	0 97	1.93	1882	0.00	1885
365, Carlín 366, Battle Mountain	0.94	1.50	1882	0.70	1884	0.73	1.48	1885	0.23	1884	0.81	2. 10	1882	0.16	1885
3661, Austin	1.15 0.82	2.13 1.57	1879 1882	0.26	1878 1886	0.87	1.25 2.12	1880 1887	0.49 0.40	1879 1883	1.15 0.75	1.31 2.17	1878 1884	0.43	1879
		0.78	1886	0.20	1887	0.68	1.60	1884	0.08	1886	0.55	1.65	1882	0.00	(¹) 1887
305. Beowawe 360. Eureka 370. Fort Ruby 3704. Hamilton 371. Hot Springs 372. Fort Churchill 373. Carson City 374. Hawthorne 375. Piecohe	0.10				•••••			• • • • • • • • •		• • • • • • • • •			••••••••		
370, Fort Ruby	2.24 2.38	3.90	1879	0. 80	1880	0.23 2.45	4.60	1880	0. 69	1878	1.63 0.74	2.00 1.20	1866 1880	1.26 0.20	1864 1879
371, Hot Springs	0,46	0.95	1886	0.12	1887	0.54	1.80	1887	0.00	'82 '85	0.28	0.65	1862	0.00	'8 5 '87
372, Fort Churchill	1.42	4.84	1862	0.04	1863	0.61	1.50	1869	0.10	1863	0.21	0.61	1869	0.00	1862
873, Carson City	2.86 (T)	6.78 (T)	1875 1887	0.40	1885 1885	1.00	2.77 1.85	1884 1887	0.08	1877 '85 `86	1.57	4.22	1882 1886	0.31 0.00	1885 1887
375, Pioche	0.47	1. 12	1879	0.20	1883	0. 55	1. 67	1878	0.17	1879	0. 39	0.73	1878	0.12	'79 '80
876, Tem-pah-ute	0. 25		••••••		•••••			••••••		••••••	(T)		••••••		••••••
Name and number of station.			April	•				May.					June.		
TALLS ALL HUMDEL OF SCAUGE.	Aver- age.	Maxi	imum.	Min	imum.	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Мах	imum.	Mini	mum.
349. Wadsworth	age. Ins. 0.31	Ins. 0.81	Yrs . 1885	Ins. 0.00	Yrs . 1884	age . <i>Ins.</i> 0.31	Ins. 0.69	Yrs. 1887	Ins. 0.25	Yrs. 1882	age. Ins. 0.41	Ins. 1.40	<i>Yrs.</i> 18×4	Ins. 0.00	Yrs. '82 '83
849, Wadsworth	age. Ins. 0.31 0.28	<i>Ins.</i> 0. 81 0. 80	Yrs . 1885 1885	Ins. 0.00 0.00	Yrs. 1884 '83 '86	age. Ins. 0.31 0.25	Ins. 0.69 0.60	Yrs. 1887 18 82	Ins. 0.25 0.00	Yrs. 1882 '84 '85	age. Ins. 0.41 0.18	<i>Ins.</i> 1.40 0.80	<i>Yrs.</i> 18×4 1884	Ins. 0.00 0.00	Yrs. '82 '83 (¹)
849, Wadsworth	age. Ins. 0.31 0.28	<i>Ins.</i> 0. 81 0. 80 1. 43	Yrs . 1885 1885 1885	<i>Ins.</i> 0.00 0.00 0.14	Yrs. 1884 '83 '86 1883	age. <i>Ins.</i> 0.31 0.25 0.36	<i>Ins.</i> 0. 69 0. 60 1. 10	<i>Yrs.</i> 1887 1882 1887	<i>Ins.</i> 0.25 0.00 0.05	Yrs. 1882 ' 84 '85 1885	Age. Ins. 0.41 0.18 0.33	<i>Ins.</i> 1.40 0.80 1.06	<i>Yrs.</i> 18×4 1884 1885	<i>Ins.</i> 0.00 0.00 0.00	Yrs. '82 '83 (¹) 1886
849, Wadsworth	age. Ins. 0.31 0.28	<i>Ins.</i> 0. 81 0. 80	Yrs . 1885 1885	Ins. 0.00 0.00	Yrs. 1884 '83 '86	Ins. 0.31 0.25 0.36 1.70 1.77	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99	Yrs. 1887 1882 1887 1883 1868	<i>Ins.</i> 0.25 0.00 0.05 0.19 1.55	Yrs. 1882 '84 '85 1885 1886 1886	age. Ins. 0.41 0.18 0.33 0.89 0.69	<i>Ins.</i> 1.40 0.80	<i>Yrs.</i> 18×4 1884	Ins. 0.00 0.00	Yrs. '82 '83 (¹) 1880 1873
849, Wadsworth	age. Ins. 0.31 0.28	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50	Yrs. 1885 1885 1885 1883 1870	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29	Yrs. 1884 '83 '86 1883 '69 '82 1867	Ins. 0.31 0.25 0.36 1.70 1.77 3.73	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99 6. 65	Yrs. 1887 1882 1887 1883 1868 1868	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80	Yrs. 1882 '84 '85 1885 1886 1869 1867	age. Ins. 0.41 0.18 0.33 0.89 0.69 0.56	<i>Ins.</i> 1. 40 0. 80 1. 06 4. 44 1. 25	<i>Yrs.</i> 18×4 1884 1885 1884 1884	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.26	Yrs. '82 '83 (¹) 1886 1873 1867
849, Wadsworth	age. Ins. 0.31 0.28	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94	Yrs. 1885 1885 1885 1883 1870 1884 1884	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29 0.38 0.25	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1878	age. <i>Ins.</i> 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99 6. 65 1. 51 1. 89	Yrs. 1887 1882 1883 1868 1866 1884 1884	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14	Yrs. 1882 '84 '85 1885 1886 1869 1867 1886 1886	age. Ins. 0.41 0.18 0.33 0.89 0.69 0.56 0.73 0.99	<i>Ins.</i> 1.40 0.80 1.06 4.44 1.25 1.16 1.27	Yrs. 1884 1884 1885 1884 1869 1885 1885	Ins. 0.00 0.00 0.00 0.26 0.40 0.00	Yrs. '82 '83 (¹) 1880 1873 1867 1883 1867
349, Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.37 0.43 0.79 1.16 0.68	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21	Yrs. 1885 1885 1885 1883 1870 1884 1887 1885	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29 0.38 0.25 0.00	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1887 1878 1878	age. <i>Ins.</i> 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99 6. 65 1. 51 1. 89 0. 64	Yrs. 1887 1882 1887 1883 1863 1866 1884 1884 1883 1883	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00	Yrs. 1882 '84 '85 1885 1886 1869 1867 1886 1886 1886 1886	age. Ins. 0.41 0.18 0.33 0.89 0.69 0.56 0.73 0.99 0.98	<i>Ins.</i> 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90	<i>Yrs.</i> 18×4 1884 1885 1884 1869 1885 1879 1885	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.00 0.22	Yrs. '82 '83 (¹) 1886 1873 1867 1883 1880 1883
349, Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.37 0.43 0.79 1.16 0.68	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 2. 16	Yrs. 1885 1885 1885 1883 1870 1884 1887 1884 1887 1885	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1887 1887 1887	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99 6. 65 1. 51 1. 89 0. 64 1. 10	Yrs. 1887 1882 1883 1868 1866 1884 1883 1883 1883	<i>Ins.</i> 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.14 0.00 0.00	Yrs. 1882 '84 '85 1885 1886 1869 1867 1886 1886 1886 '86 '87 '86 '87	age. Ins. 0.41 0.18 0.33 0.89 0.69 0.56 0.73 0.99 0.98 0.28	<i>Ins.</i> 1. 40 0. 80 1. 06 4. 44 1. 25 1. 16 1. 27 1. 90 0. 50	<i>Yrs.</i> 18×4 1884 1885 1884 1869 1885 1885 1879 1885 1879 1885	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.00 0.22 0.00	Yrs. '82 '83 (¹) 1886 1873 1867 1883 1883 1883 1883
349, Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.37 0.43 0.79 1.16 0.68	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 2. 16 2. 22 1. 87	Yrs. 1885 1885 1885 1883 1870 1884 1887 1884 1887 1885 1884 1883	<i>Ins.</i> 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.48 0.22	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1878 1887 1878 1887 1886 1886	age. <i>Ins.</i> 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.65 1.51 1.89 0.64 1.10 2.49	Yrs. 1887 1887 1882 1883 1868 1866 1884 1883 1884 1883	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00 0. 00 0. 02 0. 15	Yrs. 1882 '84 '85 1885 1886 1869 1867 1886 1886 1886 '86 '87 '86 '87 '86 '87 1887	age. Ins. 0.41 0.18 0.33 0.89 0.56 0.73 099 0.98 0.28 0.41 0.45	<i>Ins.</i> 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90 0.50 1.21 7.50	Yrs. 18×4 1884 1885 1884 1885 1885 1885 1885 188	Ins. 0.00 0.00 0.00 0.26 0.40 0.22 0.00 0.02 0.00 0.00	Yrs. '82 '83 (¹) 1885 1873 1867 1885 1885 1885 1885 1885 1885
349. Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.37 0.37 0.79 1.16 0.68 0.84 1.40 1.22	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 2. 16 2. 22 1. 87 2. 30	Yrs. 1885 1885 1885 1883 1870 1884 1887 1885 1884 1883 1884 1883	<i>Ins.</i> 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.00 0.22 0.00	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1887 1887 1886 1886 1886 1882 1888	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.85	<i>Ins.</i> 0. 69 0. 60 1. 10 12. 28 1. 99 6. 65 1. 51 1. 89 0. 64 1. 10 1. 26 2. 49 1. 92	Yrs. 1887 1882 1883 1868 1866 1883 1883 1883 1884 1884 1885	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00 0. 00 0. 02 0. 15 0. 00	Yrs. 1882 '84 '85 1886 1869 1867 1886 1869 1867 1886 '86 '87 1887 1887	Age. Ins. 0.41 0.18 0.33 0.89 0.69 0.56 0.73 0.99 0.98 0.28 0.43 1.65 0.58	<i>Ins.</i> 1. 40 0. 80 1. 06 4. 44 1. 25 1. 16 1. 27 1. 90 0. 50 1. 21 7. 50 1. 57	Yrs. 18*4 1884 1885 1884 1869 1885 1879 1885 1879 1885 1884 1884 1884	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.22 0.00 0.00 0.00 0.00	Yrs. '82 '83 1886 1887 1885 1885 1885 1885 1885 1885 1885
349, Wadaworth 350, Reno 351, Brown's 352, Camp McDermit 353, Camp Winfield 354, Camp McGarry 355, Golconda 356, Winnemncca 357, Humboldt 358, Tecoma 369, Otego 360, Toano 361, Wella 362, Hallock	age. <i>Ins.</i> 0.31 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 1.45 1.00 1.22 0.81	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 2. 16 2. 22 1. 87	Yrs. 1885 1885 1885 1883 1870 1884 1887 1884 1887 1885 1884 1883	<i>Ins.</i> 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.48 0.22 0.00 0.22	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1878 1887 1878 1887 1886 1886	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.85 0.79	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.65 1.51 1.89 0.64 1.10 2.49	Yrs. 1887 1887 1882 1883 1868 1866 1884 1883 1884 1883	<i>Ins.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00 0. 00 0. 02 0. 15	Yrs. 1882 '84 '85 1885 1886 1869 1867 1886 1886 1886 '86 '87 '86 '87 '86 '87 1887	age. Ins. 0.41 0.18 0.33 0.89 0.56 0.73 099 0.98 0.28 0.41 0.45	<i>Ins.</i> 1. 40 0. 80 1. 06 4. 44 1. 25 1. 16 1. 27 1. 90 0. 50 1. 21 7. 50 1. 57 0. 56	Yrs. 18×4 1884 1885 1884 1885 1885 1885 1885 188	Ins. 0.00 0.00 0.00 0.26 0.40 0.22 0.00 0.22 0.00 0.00 0.00 0.00	Yrs. '82 '83 (1) 1886 1885 1885 1885 1885 1885 1885 1885
349, Wadaworth 350, Reno 351, Brown's 352, Camp McDermit 353, Camp Winfield 354, Camp McGarry 355, Golconda 356, Winnemncca 357, Humboldt 358, Tecoma 369, Otego 360, Toano 361, Wella 362, Hallock	age. <i>Ins.</i> 0.31 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 1.45 1.00 1.22 0.81	<i>Ins.</i> 0.81 0.80 1.43 13.00 0.50 1.91 1.91 2.21 2.16 2.22 1.87 2.30 1.80 0.59 5.19	Yrs. 1885 1885 1885 1885 1885 1885 1884 1884	<i>Ins.</i> 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.48 0.22 0.00 0.48 0.22 0.00 0.05	Yrs. 1884 '83 '86 1883' '86 1887 1887 1887 1886 1886 1886 1886 18	age. Ins. 0,31 0,25 0,36 1,70 1,77 3,73 0,52 0,78 0,24 0,39 0,41 1,25 0,85 0,79 0,28 1,62	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.92 1.55 1.80 3.90	Yrs. 1887 1882 1887 1883 1868 1866 1884 1883 1884 1883 1884 1885 1885 1885 1885	Ins. 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00 0. 02 0. 15 0. 00 0. 12 0. 00 0. 25	Yrs. 1882 '84 '85 1885 1886 1886 1886 '86 '87 1886 '86 '87 1887 1887 1887 1887	age. Ins. 0.41 0.18 0.39 0.69 0.73 0.99 0.98 0.28 0.58 0.58 0.58 0.58 0.58 0.28 0.57 0.58 0.28 0.27	Ins. 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90 0.50 1.21 7.50 1.57 0.56 1.27 2.07	Frs. 1834 1884 1885 1885 1885 1885 1885 1885 188	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.00 0.22 0.00 0.00 0.00 0.00 0.00	Yrs. '82'83 (¹) 1886 1883 1886 1883 1885 1885 1885 1885 1885 1887 1887 1887
349, Wadaworth 350, Reno 351, Brown's 352, Camp McDermit 353, Camp Winfield 354, Camp McGarry 355, Golconda 356, Winnemncca 357, Humboldt 358, Tecoma 369, Otego 360, Toano 361, Wella 362, Hallock	age. <i>Ins.</i> 0.31 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 1.45 1.00 1.22 0.81	<i>Ins.</i> 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 1. 87 2. 30 1. 80 0. 59 5. 19 1. 62	Yrs. 1885 1885 1885 1883 1870 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883	Ins. 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.00 0.22 0.00 0.20 0.00 0.0	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1887 1887 1886 1887 1886 1886	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.85 0.79 0.28 1.62 0.51	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.55 1.80 3.90 1.58	Yrs. 1887 1882 1883 1883 1883 1883 1883 1883 1883	Ins. 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 14 0. 00 0. 02 0. 15 0. 00 0. 12 0. 00 0. 12 0. 00 0. 25 0. 00	Yrs. 1882 '84 '85 1886 1886 1869 1886 1886 1886 1886 1886 1887 1887 1887 1887 1887 1887 1887 1887 1884 1874	age. Ins. 0.41 0.33 0.89 0.696 0.73 0.99 0.96 0.28 0.43 1.65 0.58 0.28 0.43 1.65 0.58 0.28 0.43 1.65 0.56 0.73 0.58 0.28 0.43 1.65 0.56 0.56 0.57 0.58 0	Ins. 1. 40 0. 80 1. 06 4. 44 1. 27 1. 90 0. 50 1. 21 7. 50 0. 56 1. 27 2. 07 2. 85	<i>Yrs.</i> 18×4 1884 1885 1885 1885 1885 1889 1885 1879 1885 1879 1885 1879 1885 1884 1884 1884 1884 1884	Ins. 0.00 0.00 0.00 0.26 0.40 0.22 0.00 0.00 0.00 0.00 0.00 0.00	Yrs. '82'83 (¹) 1886 1883 1867 1883 1883 1883 1883 1883 1883 1883 188
349. Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 1.45 1.00 1.22 0.81 0.52 1.22 0.52 1.52	<i>Ins.</i> 0.81 0.80 1.43 13.00 0.50 1.91 1.91 2.21 2.16 2.22 1.87 2.30 1.80 0.59 5.19	Yrs. 1885 1885 1885 1885 1883 1870 1884 1883 1877 1883 1×84 1883 1×84 1883 1×84 1883 1×84 1883 1×84 1883 1×85 1885 1870 1884 1885 1870 1884 1885 1870 1884 1885 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1877 1884 1877 1884 1877 1884 1877 1884 1877 1884 1877 1885 1877 1884 1885 1877 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1883 1877 1885 1877 1887 1877 1887 1877 1887 1877 1887 1877	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.48 0.22 0.00 0.48 0.22 0.00 0.00 0.00 0.00 0.05 0.30 1.12 1.37	Yrs. 1884 1883 1883 '69 '82 1867 1887 1887 1886 1886 1886 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1883 1873 1886 1883 1883 1883 1883 1883 1885 1886 1885 1885 1885 1885 1885 1886 1885 1886 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1886 1887 1886 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1887 1886 1887 1873 1873 1873	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.85 0.28 1.62 0.51 0.70 0.86 1.62 0.28 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.79 1.25 0.78 00 0.78 000000000000000000000000000	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.92 1.55 1.80 3.90 1.58 1.29 1.56	Yrs. 1887 1882 1883 1868 1868 1864 1884 1884 1885 1885 1885 1885 1885 188	Ins. 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.15 0.00 0.02 0.15 0.00 0.12 0.00 0.25 0.00 0.25 0.00 0.46	Yrs. 1882 '84 '85 1886 1869 1866 1886 1886 1886 1886 1887 1887 1887 1887 1887 1887 1887 1879	age. Ins. 0.41 0.18 0.39 0.69 0.73 0.99 0.98 0.28 0.58 0.58 0.58 0.58 0.58 0.28 0.57 0.58 0.28 0.27	Ins. 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90 0.50 1.21 7.50 1.57 0.56 1.27 2.07 1.85 2.18 1.52	Yrs. 1884 1884 1885 1884 1869 1885 1879 1885 1879 1884 1884 1884 1884 1884 1884 1884 188	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.00 0.22 0.00 0.00 0.00 0.00 0.00	Vrs. '82 '83 (1) 1885 1873 1867 1883 1883 1883 1883 1883 1883 1885 1885
349. Wadsworth	age. Ins. 0.31 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 0.84 1.45 1.00 1.22 0.81 0.52 1.92 0.81 0.52 1.92 0.62	<i>Ins.</i> 0. 81 0. 40 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 2. 16 2. 22 1. 87 2. 30 1. 80 1. 80 5. 19 5. 19 2. 20 2. 20 2. 92 1. 50	Yrs. 1885 1885 1885 1883 1870 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1885 1877 1885 1887 1885 1886 1887 1885 1886 1887	Ins. 0.00 0.14 0.14 0.38 0.25 0.00 0.00 0.48 0.20 0.00 0.20 0.05 0.30 1.12 1.37 0.25	Yrs. 1884 '83 '86 1883 '69 '82 1867 1887 1886 1887 1886 1887 1886 1887 1886 1887 1887	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.89 0.24 0.39 0.28 1.62 0.70 0.86 0.45 0.70 0.86 0.45 0.28 0.45 0.52 0.78 0.24 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.48 0.48 0.49 0.48 0.58 0.	<i>Ins.</i> 0. 69 0. 60 1. 10 12 28 1. 99 6. 65 1. 51 1. 89 0. 64 1. 10 1. 26 2. 49 2. 1, 55 1. 80 3. 90 1. 58 1. 29 1. 58 1. 34	Yrs. 1887 1882 1883 1868 1866 1884 1883 1884 1884 1885 1885 1885 1885 1885 1885	Ins. 0.05 0.00 0.05 0.19 1.55 0.80 0.00 0.00 0.00 0.00 0.02 0.15 0.00 0.12 0.00 0.12 0.00 0.14 0.00 0.00	Yrs. 1882 1885 1886 1869 1867 1886 '86 '87 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1879 1879 1879	Ins. 0. 41 0. 33 0. 89 0. 56 0. 73 0. 99 0. 98 0. 48 0. 48 0. 48 0. 48 0. 48 0. 26 0. 37 0. 72 0. 52 0. 54 0. 37 0. 72 0. 52 0. 58 0. 58 0. 37 0. 59 0. 58 0. 37 0. 48 0. 48	Ins. 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90 0.50 1.21 7.50 0.56 1.27 2.07 1.85 2.18 1.52 1.72	Yrs. 18*4 1884 1885 1884 1869 1885 1885 1885 1885 1885 1885 1884 1885 1884 1886 1884 1884 1884 1884 1884 1884	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.00 0.22 0.00 0.00	Yrs. '82'83 (¹) 1883 1883 1883 1883 1883 1883 1883 188
349. Wadsworth	age. Ins. 0.31 0.67 1.60 0.37 6.43 0.79 1.16 0.68 0.84 0.84 1.45 1.00 1.22 0.81 0.52 1.92 0.81 0.52 1.92 0.62	<i>Ins.</i> 0. 81 0. 40 1. 43 13. 00 0. 50 1. 91 1. 94 2. 21 6 2. 22 1. 87 2. 30 1. 80 0. 59 5. 19 1. 62 2. 20 2. 92 1. 50 1. 10	Yrs. 1885 1885 1885 1885 1883 1870 1884 1883 1877 1883 1×84 1883 1×84 1883 1×84 1883 1×84 1883 1×84 1883 1×85 1885 1870 1884 1885 1870 1884 1885 1870 1884 1885 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1870 1884 1877 1884 1877 1884 1877 1884 1877 1884 1877 1884 1877 1885 1877 1884 1885 1877 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1887 1884 1883 1877 1885 1877 1887 1877 1887 1877 1887 1877 1887 1877	<i>Ins.</i> 0.00 0.00 0.14 0.14 0.29 0.38 0.25 0.00 0.00 0.48 0.22 0.00 0.48 0.22 0.00 0.00 0.00 0.00 0.05 0.30 1.12 1.37	Yrs. 1884 1883 1883 '69 '82 1867 1887 1887 1886 1886 1886 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1883 1873 1886 1883 1883 1883 1883 1883 1885 1886 1885 1885 1885 1886 1885 1886 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1886 1887 1886 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1886 1887 1887 1886 1887 1873 1873 1873	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.41 1.25 0.85 0.28 1.62 0.51 0.70 0.86 1.62 0.28 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.62 0.78 1.77 1.25 0.78 0.28 0.28 0.78	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.92 1.55 1.80 3.90 1.58 1.29 1.56	Yrs. 1887 1882 1883 1868 1868 1864 1884 1884 1885 1885 1885 1885 1885 188	Ins. 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.15 0.00 0.02 0.15 0.00 0.12 0.00 0.25 0.00 0.25 0.00 0.46	Yrs. 1882 '84 '85 1886 1869 1866 1886 1886 1886 1886 1887 1887 1887 1887 1887 1887 1887 1879	Age. Ins. 0, 41 0, 33 0, 89 0, 56 0, 73 0, 99 0, 56 0, 73 0, 99 0, 98 0, 28 0, 43 1, 65 0, 58 0, 26 0, 26 0, 27 0, 54 0, 73 0, 89 0, 58 0, 28 0, 43 1, 65 0, 58 0, 26 0, 58 0, 26 0, 58 0, 26 0, 58 0, 28 0, 58 0, 28 0, 58 0, 72 0, 72 0, 58 0, 72 0, 72 0, 58 0, 72 0, 72 0, 58 0, 73 0, 72 0, 72 0, 58 0, 73 0, 72 0, 58 0, 73 0, 72 0, 58 0, 73 0, 72 0, 58 0, 73 0, 72 0, 58 0, 78 0, 78	Ins. 1.40 0.80 1.06 4.44 1.25 1.16 1.27 1.90 0.50 1.21 7.50 1.57 0.56 1.27 2.07 1.85 2.18 1.52	Yrs. 1884 1884 1885 1884 1869 1885 1879 1885 1879 1884 1884 1884 1884 1884 1884 1884 188	Ins. 0.00 0.00 0.00 0.26 0.00 0.22 0.00 0.00	Vrs. '82 '83 (1) 1885 1873 1867 1883 1883 1883 1883 1883 1883 1885 1885
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349. Wadaworth 350. Reno 351. Brown's 352. Camp McDermit 353. Camp McDarmit 354. Camp McDarmit 355. Golconda 356. Golconda 357. Humboldt 358. Tecoma 369. Otego 360. Toano 361. Wells 362. Halleck 363. Elko 364. Camp Halleck 365. Battle Mountain 366. Justin 367. Palisade 368. Boowawe 369. Bureks 379. Surte Ruber	age. <i>Ins.</i> 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 1.45 1.06 0.84 1.45 1.05 2.0.81 0.52 1.22 0.96 1.52 0.69 1.22 0.66 1.22 0.66 1.22 0.66 1.22 0.65 1.55 1.65 1.55 1	Ins. 0.81 0.80 1.43 13.00 0.50 1.91 1.94 2.21 2.16 2.22 1.87 2.20 1.80 0.59 5.19 1.62 2.20 1.80 0.59 5.19 1.62 2.92 1.50 1.10	Yrs. 1885 1885 1885 1883 1870 1884 1884 1884 1883 1884 1883 1884 1883 1884 1885 1884 1885 1877 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1886 1870 1887 1886 1887 1880	Ins. 0.00 0.14 0.29 0.38 0.25 0.00 0.48 0.22 0.00 0.20 0.00 0.48 0.22 0.00 0.05 0.30 1.12 1.37 0.25 0.07	Yrs. 1884 1883 1883 1883 1887 1878 1877 1778	age. Ins. 0.31 0.25 0.360 1.77 3.73 0.52 0.78 0.25 0.78 0.25 0.39 0.41 1.25 0.39 0.41 1.25 0.385 0.385 0.288 1.62 0.51 0.70 0.865 0.366 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.286 0.396 0.286 0.286 0.286 0.286 0.396 0.286 0.286 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.386 0.377 0.51 0.377 0.377 0.377 0.377 0.377 0.377 0.376 0.379 0.386 0.386 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377 0.377	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 0.65 1.51 1.89 0.64 1.10 1.26 2.49 2.1.55 1.80 3.90 1.58 1.29 1.56 1.39 1.56 1.34 1.24 1.34 1.98	Yrs. 1887 1887 1883 1868 1866 1884 1883 1884 1885 1885 1885 1885 1885 1885 1885 1884 1885 1871 1884 1884 1878 1885 1875 1876 1876 1877 1884 1878 1885 1877 1884 1878 1885 1877 1884 1878 1877 1884 1878 1885 1877 1884 1878 1884 1885 1877 1884 1878 1885 1877 1884 1878 1885 1877 1884 1885 1877 1884 1885 1877 1884 1885 1877 1884 1885 1877 1884 1885 1877 1885 1877 1884 1885 1877 1884 1885 1877 1884 1878	<i>Ins.</i> 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.14 0.00 0.02 0.15 0.00 0.12 0.00 0.25 0.00 0.14 0.46 0.00 0.014 0.68 0.00	Yrs. 1882 1885 1885 1886 1869 1867 1886 1868 1867 1887 1887 1877 1877 1877 1887 1877 1887 1877 1877 1877 1877 1887 1877 1877 1877 1877 1877 1887 1877	age. Ins. 0.41 0.18 0.33 0.89 0.66 0.73 0.90 0.88 0.28 0.28 0.28 0.28 0.28 0.37 0.56 0.37 0.54 0.54 0.63 0.63 0.57 0.32	Ins. 1.40 0.80 1.06 1.27 1.16 1.27 1.57 2.17 1.27 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57 2.17 1.57	Yrs. 18:4 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:4 18:6 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:5	<i>Ins.</i> 0.00 0.00 0.00 0.26 0.40 0.26 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Yrs. '82 '83 (1) 1883 1867 1863 1863 1883 1883 1883 1883 1885 1885 1885 1885 1885 1887 1887 1885 1887 1885
349. Wadaworth 350. Reno 351. Brown's 352. Camp McDermit 353. Camp McDarmit 354. Camp McDarmit 355. Golconda 356. Golconda 357. Humboldt 358. Tecoma 369. Otego 360. Toano 361. Wells 362. Halleck 363. Elko 364. Camp Halleck 365. Battle Mountain 366. Justin 367. Palisade 368. Boowawe 369. Bureks 379. Surte Ruber	age. <i>Ins.</i> 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 1.45 1.06 0.84 1.45 1.05 2.0.81 0.52 1.22 0.96 1.52 0.69 1.22 0.66 1.22 0.66 1.22 0.66 1.22 0.65 1.55 1	Ins. 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 2. 22 1. 87 1. 80 0. 59 5. 19 1. 62 2. 20 2. 92 1. 10 	Yrs. 1885 1885 1885 1885 1883 1884 1884 1883 1884 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1884 1883 1880 1880 1880 1885 1880 1885 1883 1885	<i>Ins.</i> 0.00 0.14 0.29 0.00 0.38 0.25 0.00 0.00 0.48 0.25 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.30 1.127 0.25 0.07	Yrs. 1884 1883 1883 '69'82 1887 1887 1887 1887 1887 1887 1886 1886 1886 1886 1887 1877 1886 1887 1877 17	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.39 0.45 0.39 0.28 1.62 0.70 0.28 1.62 0.70 0.45 0.36 1.02 0.39 0.28 1.02 0.39 0.28 1.02 0.39 0.28 1.02 0.39 0.28 0.39 0.28 0.39 0.28 0.39 0.28 0.39 0.28 0.39 0.28 0.39 0.28 0.39 0.28 0.70 0.28 0.39 0.28 0.70 0.28 0.39 0.28 0.70 0.28 0.70 0.28 0.70 0.28 0.70 0.28 0.70 0.70 0.28 0.70 0.70 0.28 0.70 0.28 0.70 0.70 0.70 0.28 0.70 0.70 0.70 0.70 0.28 0.70 0.70 0.70 0.70 0.28 0.70 0.70 0.70 0.70 0.70 0.28 0.70 0.70 0.77 0.25 0.77 0.77 0.25 0.77 0.77 0.25 0.77 0.77 0.25 0.77 0.77 0.25 0.77 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.25 0.77 0.75 0.77 0	<i>Ins.</i> 0.69 0.60 1.10 12.28 1.99 6.65 1.51 1.89 0.64 1.10 2.49 1.92 1.55 1.80 3.90 1.58 1.29 1.58 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.34 1.29 1.35 1.34 1.29 1.58 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	Yrs. 1887 1887 1883 1883 1866 1884 1883 1883 1883 1885	<i>Trs.</i> 0. 25 0. 00 0. 05 0. 19 1. 55 0. 80 0. 00 0. 19 1. 55 0. 80 0. 00 0.	Yrs. 1882 1885 1886 1886 1886 1886 1886 1887 1887 1887	age. Ins. 0.41 0.18 0.89 0.66 0.73 0.99 0.98 0.43 1.65 0.56 0.73 0.98 0.26 0.72 0.54 0.73 0.89 0.65 0.73 0.72 0.54 0.73 0.72 0.53 0.65 0.57 0.32 0.32 0.32	<i>Ins.</i> 1. 40 0. 80 1. 06 4. 44 1. 25 1. 16 1. 27 1. 90 1. 57 0. 50 1. 27 2. 05 1. 127 2. 18 1. 72 2. 25 0. 71 0. 57 1. 27 1. 72 1. 73	Yrs. 18:4 18:5 18:5 18:5 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:7 18:5 18:5 18:7 18:5 18:5 18:7 18:5 18:5 18:7 18:5 18:4	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.22 0.00 0.00 0.	Yrs. '82 '83 (1) 1885 1887 1887 1885 1885 1885 1885 1885
349, Wadsworth	age. <i>Ins.</i> 0.28 0.67 1.60 0.37 6.43 0.79 1.16 0.68 1.45 1.06 0.84 1.45 1.05 2.0.81 0.52 1.22 0.96 1.52 0.69 1.22 0.66 1.22 0.66 1.22 0.66 1.22 0.65 1.55 1	Ins. 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 1. 94 2. 22 1. 23 0. 59 5. 192 2. 20 2. 92 2. 92 1. 50 1. 10 . 55 0. 55 0. 11 5. 02	Yrs. 1885 1885 1885 1885 1883 1870 1884 1883 1877 1883 1884 1883 1884 1883 1885 1877 1885 1877 1885 1885 1877 1885 1885 1877 1885 1878 1876	<i>True</i> , 0, 00 0, 00 0, 14 0, 14 0, 29 0, 00 0, 0000 0,00000000	Yrs. 1884 1883 1883 1887 1887 1887 1887 1887 1887 1886 1886 1886 1886 1887 1886 1887 1887 1886 1887 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.36 1.97 0.24 0.36 1.97 0.41 1.25 0.85 0.36 0.41 1.25 0.36 0.25 0.27 0.227	<i>Ins.</i> 0.69 0.60 1.10 12.29 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.92 1.55 1.80 3.90 1.58 1.29 1.58 1.39 1.34 1.29 1.34 1.29 1.34 1.98 0.45 0.45 0.090 0.92	Frs. 1887 1882 1867 1883 1868 1864 1883 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1884 1885	<i>I</i>ns. 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.02 0.15 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.050 0.05 0	Yrs. 1882 1882 1885 1886 1866 1866 1866 1866 1886 1887 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1887 1877 1887	age. Ins. 0.41 0.18 0.89 0.69 0.56 0.73 0.99 0.98 0.43 1.65 0.56 0.72 0.54 0.72 0.56 0.58 0.43 1.658 0.26 0.72 0.54 0.57 0.73 0.89 0.65 0.57 0.32 0.38 0.43	Ine. 1 400 1.06 4.44 1.25 1.16 1.21 1.21 1.57 0.56 1.21 1.57 1.57 1.52 1.72 2.07 1.85 1.72 2.07 1.85 1.72 2.15 1.72 1.90 0.51 1.97 1.92 1.15 1.92 1.15 1.15 1.21 1.22 1.57 1.5	Yrs. 18:4 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:4 18:6 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:5 18:4 18:5	<i>Ins.</i> 0.00 0.00 0.00 0.22 0.00 0.00 0.00 0.	Vrs. '82 '83 1855 1857 1857 1865 1863 1863 1863 1863 1865 1867 1877 1
349. Wadsworth 350. Reno 351. Brown's 352. Camp McDermit 353. Camp Minfield 354. Camp McGarry 355. Golconda 355. Golconda 356. Winnemucca 357. Humboldt 358. Tecoma 359. Otego 360. Toano 361. Wella 362. Halleck 363. Elko 364. Camp Halleck 365. Garlin 366. Battle Monntain 367. Palisade 368. Beowawe 369. Bureka 370. Fort Ruby 370. Fort Ruby 370. Fort Ruby 371. Hot Springs 372. Fort Churchill 373. Carson City 374. Hawthorne	age. Ine. 0.31 0.28 0.67 1.60 0.67 1.60 0.71 6.00 0.71 0.01 0.67 1.60 0.67 1.60 0.81 0.52 0.96 0.67 1.22 0.91 0.68 1.22 0.91 0.52 1.91 0.68 0.69 2.63 0.101 1.91 0.101 1.91 0.233 0.310	Ins. 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 1. 87 2. 30 1. 80 0. 50 5. 19 1. 62 2. 20 2. 92 1. 50 5. 19 1. 10	Yrs. 1885 1885 1885 1885 1887 1884 1884 1884 1883 1884 1883 1884 1883 1884 1883 1885 1883 1885 1883 1885 1883 1885	Ins. 0.000 0.000 0.14 0.14 0.29 0.000 0.000 0.000 0.48 0.22 0.000 0.48 0.22 0.000 0.48 0.22 0.000 0.48 0.22 0.00 0.00 0.00 0.02 0.00 0.00 0.0	Yrs. 1884 '83 '96' '82 1883 '69' '82 1887 1878 1887 1878 1887 1878 1887 1878 1887 1878 1887 1886 1887 1886 1887 1887 1886 1887 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1777 1777 1777 1777 1777 17777 1777 1777 1777 177	age. Ins. 0.31 0.25 3.73 0.77 3.73 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.79 0.71 0.72 0.73 0.70 0.70 0.70 0.70 0.70 0.70 0.24 0.77 0.24 0.70 0.24 0.70 0.24 0.70 0.24 0.77 0.24 0.23	<i>Ins.</i> 0. 669 0. 6. 60 0. 60 0. 60 0. 60 0. 1. 10 12 28 0. 66 0. 51 51 1. 59 0. 64 4. 52 4. 59 0. 64 4. 52 4. 59 0. 61 4. 52 4. 59 0. 61 4. 52 4. 50 0. 51 1. 52 1. 56 1. 52 1	Yrs. 1887 1887 1883 1868 1866 1883 1868 1883 1883 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1885	Ins. 0.25 0.000 0.05 0.19 1.50.80 0.00 0.02 0.12 0.00 0.02 0.00 0.02 0.00 0.02 0.04 0.02 0.04 0.02 0.04 0.04	Yrs. 1882 '84' 885 1885 1886 1867 1886 1866'87 '86' 87 1878 1879 1879 1870 1877	Age. Ins. 0.41 0.18 0.89 0.69 0.98 0.43 1.65 0.266 0.72 0.54 0.72 0.54 0.73 0.89 0.65 0.266 0.73 0.54 0.73 0.89 0.56 0.43 1.65 0.56 0.73 0.56 0.43 1.65 0.56 0.73 0.43 1.65 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.73 0.56 0.56 0.56 0.73 0.56 0.56 0.57 0.72 0.54 0.72 0.55 0.65 0.72 0.72 0.54 0.73 0.65 0.72 0.72 0.54 0.73 0.65 0.72 0.72 0.72 0.72 0.54 0.73 0.65 0.73 0.72 0.72 0.72 0.72 0.72 0.73 0.72	Ins. 1.40 0.80 1.06 4.44 1.25 1.27 1.90 0.50 1.21 1.57 0.56 1.27 2.07 1.85 2.18 1.52 2.18 1.52 2.18 5.22 1.75 0.50 0.71 0.51 1.17 1.52 1.57 1.52 1.75 1.52 1.75 1.52 1.75 1.52 1.75 1.57	Yrs. 18:4 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:4 18:5 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:5	Ins. 0,00 0,00 0,28 0,28 0,28 0,28 0,29 0,28 0,29 0,28 0,29 0,29 0,29 0,29 0,29 0,29 0,29 0,29	Yrs. '82 '83 (') 1886 1873 1887 1885 1885 1885 1885 1885 1885 1887 1877 1877 1875 1886 1886 1887 1887 1887 1887 1887 1887 1877
349. Wadsworth 350. Reno 351. Brown's 352. Camp McDermit 353. Camp McGarry 355. Golconda 355. Golconda 355. Golconda 356. Winnemucca 357. Humboldt 388. Teccoma 369. Otego 360. Toano 361. Wella 362. Halleck 363. Elko 364. Camp Halleok 365. Gorna 366. Battle Monntain 366. Battle Monntain 367. Palisade 368. Beowawe 369. Bureka 370. Fort Ruby 370. Fort Ruby 371. Hot Springs 372. Fort Churchill 373. Carson City 374. Hawithorne	age. Ine. 0.31 0.28 0.67 1.60 0.67 1.60 0.71 6.00 0.71 0.01 0.67 1.60 0.67 1.60 0.81 0.52 0.96 0.67 1.22 0.91 0.68 1.22 0.91 0.52 1.91 0.68 0.69 2.63 0.101 1.91 0.101 1.91 0.233 0.310	Ins. 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 1. 94 2. 22 1. 23 0. 59 5. 192 2. 20 2. 92 2. 92 1. 50 1. 10 . 55 0. 55 0. 11 5. 02	Yrs. 1885 1885 1885 1885 1883 1870 1884 1883 1877 1883 1884 1883 1884 1883 1885 1877 1885 1877 1885 1885 1877 1885 1885 1877 1885 1878 1876	<i>True</i> , 0, 00 0, 00 0, 14 0, 14 0, 29 0, 00 0, 0000 0,00000000	Yrs. 1884 1883 1883 1887 1887 1887 1887 1887 1887 1886 1886 1886 1886 1887 1886 1887 1887 1886 1887 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877	age. Ins. 0.31 0.25 0.36 1.70 1.77 3.73 0.52 0.78 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.36 1.97 0.24 0.36 1.97 0.41 1.25 0.85 0.36 0.41 1.25 0.36 0.25 0.27 0.227	<i>Ins.</i> 0.69 0.60 1.10 12.29 6.65 1.51 1.89 0.64 1.10 1.26 2.49 1.92 1.55 1.80 3.90 1.58 1.29 1.58 1.39 1.34 1.29 1.34 1.29 1.34 1.98 0.45 0.45 0.090 0.92	Frs. 1887 1882 1867 1883 1868 1864 1883 1884 1884 1885 1885 1885 1885 1885 1885 1885 1885 1884 1885	<i>I</i>ns. 0.25 0.00 0.05 0.19 1.55 0.80 0.00 0.02 0.15 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.05 0.00 0.050 0.05 0	Yrs. 1882 1882 1885 1886 1866 1866 1866 1866 1886 1887 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1876 1887 1877 1887	age. Ins. 0.41 0.18 0.89 0.69 0.56 0.73 0.99 0.98 0.43 1.65 0.56 0.72 0.54 0.72 0.56 0.58 0.43 1.658 0.26 0.72 0.54 0.57 0.73 0.89 0.65 0.57 0.32 0.38 0.43	Ine. 1 400 1.06 4.44 1.25 1.16 1.21 1.21 1.57 0.56 1.21 1.57 1.57 1.52 1.72 2.07 1.85 1.72 2.07 1.85 1.72 2.15 1.72 1.90 0.51 1.97 1.92 1.15 1.92 1.15 1.15 1.21 1.22 1.57 1.5	Yrs. 18:4 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:4 18:6 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:5 18:4 18:5	<i>Ins.</i> 0.00 0.00 0.00 0.22 0.00 0.00 0.00 0.	Yrs. '82 '83 (1) 1885 1873 1867 1883 1883 1883 1883 1883 1883 1883 188
349. Wadsworth	age. Ins. 0.31 0.28 0.67 1.60 0.71 6.00 0.67 1.62 0.37 6.43 0.73 0.67 1.16 0.63 0.70 0.84 1.62 0.84 1.22 0.96 1.52 1.91 0.96 1.52 2.66 1.57 2.268 1.21 0.31 0.31 1.21 0.32 0.31 0.31 1.21 0.36 1.11	Ins. 0. 81 0. 80 1. 43 13. 00 0. 50 1. 91 2. 21 2. 22 1. 87 2. 30 1. 80 0. 50 5. 19 1. 62 2. 20 2. 92 1. 50 5. 19 1. 10	Yrs. 1885 1885 1885 1885 1883 1870 1884 1883 1884 1883 1884 1883 1884 1883 1884 1883 1884 1885 1877 1885 1877 1885 1885 1877 1885 1885 1877 1885 1885 1877 1885 1885 1877 1885 1877 1885 1885 1877 1885 1880 1884 1882 1880 1880 1880 1880 1885 1880 1880 1880 1880 1885 1887 1885 1880 1880 1880 1885 1887 1885 1887 1885 1880 1880 1885 1887 1885 1887 1885 1887 1887 1887 1887 1887 1887 1887 1887 1887 1880 1880 1887 1880 1887 1880 1887 1882	Ins. 0.000 0.000 0.14 0.14 0.29 0.000 0.000 0.000 0.48 0.22 0.000 0.48 0.22 0.000 0.48 0.22 0.000 0.48 0.22 0.00 0.00 0.00 0.02 0.00 0.00 0.0	Yrs. 1884 '83 '96' '82 1883 '69' '82 1887 1878 1887 1878 1887 1878 1887 1878 1887 1878 1887 1886 1887 1886 1887 1887 1886 1887 1878 1877 1878 1877 1878 1877 1878 1877 1878 1877 1777 1777 1777 1777 1777 17777 1777 1777 1777 177	age. Ins. 0.31 0.25 0.36 1.70 3.73 0.67 0.78 0.79 0.41 1.25 0.70 0.85 0.79 0.51 0.70 0.85 0.70 0.85 0.70 0.85 0.70 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.24 0.23 0.36	<i>Ins.</i> 0. 669 0. 6. 60 0. 60 0. 60 0. 60 0. 1. 10 12 28 0. 66 0. 51 51 1. 59 0. 64 4. 52 4. 59 0. 64 4. 52 4. 59 0. 61 4. 52 4. 59 0. 61 4. 52 4. 50 0. 51 1. 52 1. 56 1. 52 1	Yrs. 1887 1882 1887 1883 1866 1883 1883 1883 1883 1883 1884 1885 1885 1885 1885 1885 1885 1885 1885 1885 1884 1885	Ins. 0.25 0.000 0.05 0.19 1.50.80 0.00 0.02 0.12 0.00 0.02 0.00 0.02 0.00 0.02 0.04 0.02 0.04 0.02 0.04 0.04	Yrs. 1882 '84' 885 1885 1886 1867 1886 1866'87 '86' 87 1878 1879 1879 1870 1877	age. Ins. 0.41 0.18 0.38 0.89 0.56 0.73 0.98 0.99 0.98 0.41 0.56 0.73 0.98 0.43 1.65 0.56 0.73 0.73 0.98 0.43 1.65 0.57 0.72 0.63 0.65 0.57 0.32 0.32 0.32 0.32 0.37 0.75 0.75	Ins. 1.40 0.80 1.25 1.27 1.90 0.50 1.21 1.27 1.90 0.50 1.27 2.07 1.27 2.07 1.27 2.07 1.27 2.07 1.27 2.18 1.57 2.18 1.72 2.25 1.72 2.17 1.72 2.25 1.72	Yrs. 18:4 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:5 18:4 18:5 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:4 18:5	Ins. 0,00 0,00 0,25 0,40 0,00 0,00 0,00 0,00 0,00 0,00 0,0	Yrs. '82 '83 (') 1886 1873 1887 1885 1885 1885 1885 1885 1885 1887 1877 1877 1875 1886 1886 1887 1887 1887 1887 1887 1887 1877

† No data.

(1) Frequently.

(²) Generally.

,

(I) Trace of rain-fall.

NEVADA-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

	July.						August.					September.				
Name and number of station.	A ver. age.	Maximum.		Minimum.		Aver- age,	Maximum.		Minimum.		Aver- age.	Maximum.		Minimum.		
	Ins.	Ins.	Γrs.	Ins.	Yrs.	Ins.	Ins.	Fre.	Ins.	Yrs.	Ins.	Ins.	Γrs .	Ins.	Γr	
Wadsworth	. 0.28	1.28	1887	0.00	(')	0.05	0.10	'81 '87	0.00	'82 '86	0.05	0.15	(1)	0.00	(
Reno	0.06	0,20	1883	0.00	(¹)	0.00	0.00		0.00		0.00	0.00		0.00		
Brown's		0.15	1884	0.00	(i)	0.02	0.15	1887	0.00	(1)	0.06	0.25	1887	0.00		
Camp McDermit	. 0.24	0.62	1876	0.00	(ť)	0.25	2.06	1886	0.00	(2)	0.23	1. 69	1884	0.00		
Camp Winfield Scott	. 0.20	0.48	1868	0.00	1567	0.24	0.38	1867	0,00	1868	1.03	1.52	1867	0.32	1	
Camp McGarry	. 0.00					0.22					0.82	2.15	1867	0.12	1	
Golconda	. 0.07	0.42	18×6	0.00	(י)	0.06	0.25	1885	0.00	'77 '82	0.26	1.04	1882	0.00	'86	
Winnemucca.	. 0.16	1.61	1886	0.00	'80 '81	0.09	0.50	1878	0.00	'77 '82	0.31	1.28	1882	0.00		
Humboldt	.: (T)	0.03	1885	0.00	(2)	0.04	0.27	1887	0.00	(*)	0.08	0.25	1882	0.00		
Tecoma		0.85	1887	0.00	'82 '85	0.21	0.40	1886	0.10	1884	0.31	0.83	1884	0.00	1	
Otego		1.10	1887	0.00	'83 '86	0.36	0.60	1884	0.00	1887	0.20	0.42	1884	0.04	-	
Toano		0.86	1887	0.00	(Å)	0.15	0.55	1886	0.00	'87 '87	0.21	0.80	1884	0.00		
Wells		0.60	1881	0.00	- čí	0.40	0.96	1881	0.00	1887	0.15	0.28	1882	0.00	'81	
Halleck		0.25	1667	0.00	185 186	0.07	0.14	'82 '84	0.00	'81 '86	0.15	0.40	1887	0.00	'82	
Elko		0.40	1887	0.00	(¹)	0.12	0.36	1881	0.00	Ű)	0.21	1.00	1884	0.00		
Camp Halleck		1.65	76'77	0.00	1870	0. 18	0.97	1869	0.00	- 6	0.34	1.06	1879	0.00	'8	
Carlin		0.35	1887	0.00	'83 '85	0. 25	0.58	1883	0.00	'82 'KG	0.33	0.74	'82 '84	0.00	'8	
Battle Mountain		0.38	1886	0.00	ိမိ	0.11	0.33	1185	0.00	'82 '86	0.46	1.33	1882	0.00	ିଞ୍ଚ	
Austin		0.15	1878	0.02	1879	0.47	1.31	1878	(T)	1879	0.82	0.85	1878	(T)		
Palisade		0.85	1881	0.02	(1)	0.18	0.25	1885	0.00	(1)	0.41		1884	0.00		
Beowawe		0.75	1886	0.00	8	0.07	0.39	1885	0.00	6	0.29	1.09	1852	0.00		
Eureka †	. 0.07	0. 15	1000	0.00	(.)	0.07	0.30	1000	0.00	0	0,20	1.05	1004	0.00		
Fort Ruby	0.59	1.08	1865	0.11	1864	1.62	2.37	1865	1.20	1868	0.51	1.47	1865	0.03	••••	
Hamilton		0.60	1880	0.00	1878	0.94	1.60	1878	0.05	1877	0.60	2.10	1878	0.00	-	
Hot Springs		0.35	1882	0.00	185 86	0.02	0.08	1884	0.00	(1)	0.07	0.44	1832	0.00		
Fort Churchill	1.16	4.63	1863	0.00	'85 80 '65 '67	0.02	0.35	1864	0.00	1865	0.07	0.20	1862	0.00	'66	
Carson City		1.25	1886	0.00		0. 22	0.62	1884	0.00	(1)	0.05	0.40	1882	: 0.00		
Hawthorne		0.25	1887	0.00	(¹) 1884	0.02	0.02	1884	0.00	186 187	0.13	0.30	1887	0.00		
Pioche		0.25	1878				1.73		0.18	1877	0.08	0.30	1878	0.00	'79	
Tem-pah-utet		0.29	1919	0.17	1879	0.19	1.13	1691	U. 10	1011	0.10	0.22	1010	0.00	- 12	

Name and nun ber of station.	October.				Novemb	ег.	i.	Decemb	er.	. Year.			
	Aver- age.	Maximum	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum	
	Ins.	Ine. Yre.	Ins. Yrs.	Ine	Ing. Tra.	Ing. Yrs.	Ine.	Ins. Yrs.	Ins. Trs.	Ins.	Ins. Yrs.	Ins. Yrs	
49. Wadsworth	0.50	2.35 1886	0.00 (1)		1.13 1885	0. 00 '84 '87		1.10 1882	0.00 1886	4.48	5.72 1887	2.75 188	
50. Reno	0.10	0.60 1853	0.00 (1)		1. 55 1885	0.00 (1)	0.41	0. 80 1581	0. 00 '82 '83		6. 17 1884	2.95 188	
51, Brown's	0. 59	1.36 1884	0.00 (1)	0. 28	1. 39 1885	0.00 1887	0.32	0.55 1885	0.00 1833	4. 61	6.17 1886	2.09 188	
52. Camp McDermit.		6.66 1883	0.00 1857	0.87	3. 73 1875	0.00 1584	1.17	3.68 1880	0.00 1878	12.28	40.83 1883	5.94 188	
53. Camp Winfield	0.01	0.00 1000	0.00 1001	0.01	0.10 1010	0.001 1004	1.1.	0.00 1000	0.00 1010	12.20	40.00 1000	0.01 100	
Scott	0.06		1	1.00	1.97 1867	0.02 1868	3.83	6.17 1867	1.50 1868	17.33		1	
54. Camp McGarry		1.65 1866	0.58 1868	1.99	2.72 1867	0.90 1866	2.97	3. 79 1867	2.00 1865	22.46			
53, Golconda		1. 44 1883	0.00 1887	0.27	1.07 1882	0.00 1884	0.44	1.12 1884	0.25 1886	5. 47	8.93 1884	2.84 188	
56. Winnemucca	0. 62	1.76 1882	0.00 1880	0.83	3.78 1885	0.10 1880	1.22	3. 29 1884	0.00 1877	7.93	11.80 1885	6.77 187	
57. Humboldt		2.13 1881	0.00 85 87		0. 97. 1882	0.00'84'87		2.30 1881	0.24 1886	5, 99	8.49 18-2	2.54 188	
		1,60 1882				0.00 1881	0.75	1.69 1884	0.10 1882	5.28	9. 26 1>84	4.18 18	
58, Tecoma		1.66 1886	0.00'85'87	0.36	1.10 1885	0.00 1881		3. 15 1884	0.51 1886	9.17	12. 72 1884	7.98 18	
59, Otego			0.62 1883	0.54	1. 70 1883		1.38		0.38 18+6	8.57	16. 68 1886	4.10 188	
60, Toano		1. 25 18-4	0.03 1885	0.39	1.35 1886	0.00 1884	0.76	2.20 1884	0.85 1881		13. 73 1882	1.36 188	
61, Wells		2.34 1882	0.00'81'87	0.60	1.30 1883	0.00 1884	1.32	3.25 1856		9.25	8.50 1884		
62, Halleck		1.19 1886	0.00 85 87	0.55	1.64 1885	0.00 1884	0.72	1. 33 1884	0.20 1846	6.79			
63, Elko	0.20	0.59 1885	0.00 1887	0.46	1.80 1885	0.00 1881	1 1. 58	3.41 1884	0.69 1881	6.38	11.24 18-4	3.40 18	
64, Camp Halleck		2.62 1874	0.00 1870	2.26	6. 29 1875	0.15 1873	1.76	4.55 1879	0.29 1870	15. 73	27.01 1877	5.43 187	
65, Carlín		1.49 1882	0.00 1887	0.49	2.17 1885	0,00 '83 '84		2.89 1884	0.45 1882	8.78	14.99 1884	5.24 158	
66. Battle Mountain.		1.94 1884	0.00 '85 '87	0.53	1.50 1886	0.00 1884	0.84	1.82 1884	0.30 1882	8.26	11.96 1884	4.46 188	
661. Austin		0.85 1879	0.82 1878	0.92	0.99 1878	0.85 1879	0.74	1.88 1879	0.04 1877	10. 21	1	• • • • • • • • • • • • • • • • • • • •	
67, Palisade		2. 10 1882	0.00 1887	0.78	1.88 1885	0.00 1884	1.07	2.07 1884	0.37 1886	7.60	13.10 1884	3.27 18	
168, Beowawe	0.62	1. 19 1886	0. 00 '85 '87	0.56	1.18 1885	0.00 1884	0.80	1.84 1884	0.22 1882	5.95	10.97 1884	1.97 188	
69, Euroka †				· • • • • •				 .					
170, Fort Raby	, 1.89	3.33 1865	0.45 1868	0, 94	1.00 1864	0.87 1863	1.76	2.00 1864	1.53 1863	15.59			
701, Hamilton		2.70 1879	0.65 1878	1.65	2.60 1.79	1,15 1878	3, 70	8.30 1879	1.10 1878	17.61	23.28 1879		
71, Hot Springs	0. 22	0.51 1882	0. 00 '85 '87	0.35	1. 54 1885	0.00 (1)	0. 25	0.50 1884	0.03 1883	3.26	4. 49 1882	1.42 188	
72, Fort Churchill	0.18	0.35 1862	0.00 1866	1.04	1.88 1864	0.00 1862	1.04	3.35 1867	0.00 1863	7.43		• . • • • • • • • • • •	
73, Carson City	0.52	1.61 1882	0.00 1880	1.58	7.01 1875	0.00 1884	1.84	4.75 1884	0.00 1876	11.75	18.03 1875	7.05 188	
74. Hawthorne		0.05 1884	0.00 (1)	1.08	2, 15 1>85	0.00 1884	0.48	0.52 1884	0.45 1885	3.82	1		
75. Pioche	0.53	0.66 1879	0.35 1878	0.35	0.71 1882	0.00 1877	0.85	1.84 1880	0. 08 '81 '82	6.47	8.36 1878	4.67 188	
376, Tem-pah-ute t			1	1	1	1	P	1		1			

(*) Generally.

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† No data.

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(1) Frequently.

RAIN-FALL OF THE PACIFIC COAST AND

UTAH TERRITORY.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

							ł		Re	cord.			
No.	Name of station.	County.	Lat- itude.	gitud		Eleva- tion.	Len	gth.	From	n—	To (ii sive		Remarks as to coservers and miss- ing records.
377	Blue Creek	Box Elder	41 47	° 112	, 30	Feet.	Irs. 6	<u>Ж</u> .	July.	1881	Nov.,	1887	Central Pacific R. R. Jan., 1883;
378	Promontory	do	41 35				6	2			Nov.		Mar., 1884. Central Pacific R. R. Nov., 1884;
379	•	do	41 34	112	8	4, 294	9				1		Mar., Nov., 1886; Apr., 1887. Central Pacific R. R. U. S. post
010			11 54	112	0	2 , 2 7		0	<i>о</i> ац.,	1011	Nov.,	1001	hospital. Jan., 1871, to Sept., 1872, inclusive; Mar., 1874, to June, 1881, inclusive.
380	Kelton	do	41 33	113	9	l	6	3	July,	1881	Nov.,	1887	Central Pacific R. R. Aug., 1881;
381	Теггасе	do	41 30	113	80		6	2	July,	1881	Nov.,	1887	Oct., 1884; Nov., 1885. Central Pacific R. R. Nov., 1882; Aug., 1883; Oct., 1884; Mar., Oct.,
382	Logan	Cache	41 44	111	48		0	5	Nov.,	1883	Mar.,	1884	1885. C. M. Parks.
883	Ogden	Rich.† Weber		111	57			3			Nov.,		Central Pacific R. R. Sept., 1881;
		Morgan.t			•••			-	·			1001	Jan., Apr., 1882.
384	Coalville	Summit					6	8	Dec.,				Thomas Bullock. Record broken. July, 1875; Mar., Apr., Aug., Sept., 1879; Oct., 1880; Nov., Dec., 1881; Apr., May, Nov., Dec., 1882; Jan., Feb., 1883.
885	Wanship	do	40 40	111	20	6, 200	1	5	Dec.,	1867	Dec.,	1874	Thomas Bullock. Record much broken. Apr. to Nov., 1868, in- clusive; Mar. to Dec., 1869; Jan. to Dec., 1870; Apr. to Nov., 1871; Apr., May, July, Aug., Sept., Nov., Dec., 1872; Jan., 1873, to Nov., 1874, inclusive.
3851	Deep Creek	Davis.† Tooele	40 26	112	2 2		2	8	Sopt.,	1877	Sept.,	1880	Signal Service. Oct., Nov., 1877; May, June, July, 1880.
386	Camp Douglas	Uintah.† Salt Lake	40 46	111	50	4, 903	18	2	Mar.,	1864	Mar.,	1883	U. S. post hospital. Record much broken. July, Oct., Nov., 1864; Juneto Aug., 1866, inclusive; Dec., 1869; June, 1878; May, 1881; Sept.,
387	Salt Lake City	do	40 46	111	54	4, 354	22	3	Feb.,	1857	Dec.,	1887	Nov., 1882. Signal Office. Record much broken. Nov., 1857, to Aug., 1858, inclu- sive; Nov., Dec., 1858; July, 1859; Jan. to Dec., 1859; inclusive; June, Oct., 1861; Jan., 1862, to Jan., 1863; inclusive; Mar., Apr., May, 1863; July to Dec., 1863, inclusive; Jan., Mar., Apr., Mav, Nov., 1867; Feb., Mar., Apr., July, 1868; Sept., 1864, to Apr., 1872, inclusive; Jan., Feb., 1874.
388	Spring Lake Villa.	Wasatch.† Utah	41 1	111	45		0	3	July,	1875	Sept.,	1875	J. Duncan Putnam.
389 390	Camp Floyd Goshen	do	40 16		08 52			6 11	July, July,	1858	Dec.,	1860	U. S. post hospital. Central Pacific R. B. Apr., 1882.
391		Juab	39 42					6	Mar.,	1883	June, Aug.,		James G. Bardsley.
		San Pete.† Emery.†					1						
891 1	Fillmore	Millard Sevier.t	38 58	112	20		3	2	Aug.,	1877	Sept.,	1880	Signal Service.
3 92	Frisco	Beaver Pi Ute.† San Juan.†	38 25	113	16		2	6	July,	1885	Dec.,	1887	Do.
393	Saint George	Iron.† Garfield.† Washington	37 10	113	34	2, 800	6	2	Jan.,	1801	Oet.,	1880	H. Pearce, Signal Service. G. A. Burgon. Record much broken.
													Mar, Mar, July, Oct. Dec., 1861; Jan., 1862; Apr. to Dec., 1861; Mar., July, 1863; Sept., 1863; to Apr., 1864, inclusive; June, 1864; Aug., 1865: Jan. to Mar., 1866; May, 1866, to Feb., 1869, inclusive; June, July, 1869; Sept., 1863, to July, 1877, inclusive.
304	Harrisburgh	do	37 10	112	57	2, 375	2	2	Feb.,	1869			James Lewis. Sept., 1869; June, 1870; Aug., 1870, to Jan, 1871, in-
395	Mount Carmel	Капе	37 17	112	41	•••••	3	4	Jan.,	1871	July,	1878	clusive: May, June, Oct., 1871. Rasmus M. Engelbard, Jan. to Dec., 1875, inclusive; June. July, 1876; Jan., Nov., Dec., 1877.
396	Kanab	do	37 3	112	34	4, 909	5	4	Мау,	1872	Oct.,	1879	James Lewis. Record much broken. Oct., 1872, to Jan., 1873, inclusive; Mar, 1873, to June, 1874, inclusive; Sept., 1874, j June, 1875; Mar., May, Aug., 1878.

† No data.



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UTAH TERRITORY-Continued.

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UTAH TERRITORY-Continued.

			January	r.	1		1	Februar	y.				March	•	
Name and number of station.	Aver- age.	Maxi	mam.	Mini	mun).	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yre.	Ins.	Ins.	Yra.	Ins.	Yrs.	Ins.	Ins.	Yre.	Ins.	Yrs
7, Blue Creek	. 0. 83	1.16	1886	0.45	1882	0.68	1.52	1885	0.35	1886	0. 39	1.05	1886	0.02	18
8, Promontory	. 0.88	1.37	1886	0.32	1885	0.87	0.75	1884	0.20	1883	0.77	2.05	1883	0.00	18
9, Corinne 0, Kelton	0.99	1.65 1.13	1885 1886	0.55	1884	1.40	2.40	1882	0.80	1883	0.81	3.80	1884	0.10	18
1. Terrace	0.53	0.85	1880	0.04	1887 1885	0.84 0.47	1.80 0.90	1882 1884	0.48 0.10	1887 1883	0.45	2.20 1.58	1884 1884	0.02	18
Logan		0.00	1000	0.00	1000	4.00	0.00	1004	0.10	1000	1.00	1.00	1004	0.10	
Ögden		2.12	1885	0.77	1884	1.74	2.28	1887	0.32	1883	1. 16	3,63	1884	0.00	1
. Coslville	. 2.38	6.90	1×75	0.40	1878	1.72	3.65	1875	6.20	1877	2.17	3.00	1881	0.12	1
Wanship	. 1.09	1.70	1869	0.23	1872	1.43	2.05	1872	0.70	1868	1.88	2.2)	1871	1.45	1
h. Deep Creek	. 0.40	0.80	1878	0.02	18+0	0.65	1.80	1878	0.00	1879	0.06	0.12	1880	(T)	1
Camp Douglas	.: 1.91	4.51	1867	0.52	1880	1.40	8.18	1878	0.40	1877	2.07	4.94	1867	0.42	1
Salt Lake City	1.01	3.28	1864	0.29	1880	1.79	5.60	1873	0.38	1877	2.10	3.69	1884	0.35	1
Comp Floyd	0.27	0.35	1859	0.20	1860	0.63	1.14	1859	0. 12	1860	0.50	0.72	1860	0.28	i
Camp Floyd	0.51		1882	0.00	1883	0.05	1.27	1882	0.12	1883	1.48	1.70	1883	1.26	j
Nephi	0.69	0.86	1884	0.52	1885	2.93	3.70	1884	2.17	1885	1.29	2. 15	1884	0.45	1
J. Fillmore	. 4, 99	9.61	1878	2.12	1879	7.52	18. 59	1878	1.23	1879	4.27	10.00	1878	0.15	j
Frisco	. 0.35	0.54	1886	0.15	1887	0.53	0.86	1887	0.19	1886	0.37	0.46	1887	0.28	1
Saint George	. 1.43	2.44	1865	0.85	1863	0.78	0.98	1862	0.43	1861	0.65	1.30	1869	0.01	1
Harrisburgh	. 0. 10	0.15	1870	0.05	1872	2.94	4.50	1872	0.95	1869	1.17	2.10	1870	0.10	1
, Mount Carmel	. 6.68	16.00 3.30	1874 1875	1.05	1876 1879	6.13 1.69	11.90 3.53	1878 1878	4.00 0.03	1877 1879	5, 20 0, 56	10.00	1877 1876	0.50	1
	1	1					[l'			1	
	1					1 -					1		-		
Name and pumples of station			A pril.					May.			_	•	June.		
Name and number of station.	Aver- age.	Max	April. imum.		imum.	Aver- age.	Max	May. imuw.	Mini	munı.	A ver- age.	Maxi	June. mum.	Mini	mum
	age. Ins.	Ins.	imum. Yrs.	Mini Ins.	Yrs.	age.	Ins.	imaw. Yrs.	Ins.	Yre.	age. Ins.	Ins.	num. Yrs.	Ins.	mun
7, Blue Creek	age. Ins. 1.22	Ins. 2.54	imum. <i>Yrs.</i> 1882	Mini Ins. 0. 12	Frs. 1883	age. Ins. 0.50	Ins. 1. 27	imam. Fre. 1885	Ins. 0.00		age. Ins. 0.62	Ins. 1.73	mum. Yrs. 1885	Ins. 0.00	1
7, Blue Creek	age. Ins. 1.22 . 1.21	Ins. 2.54 4.37	imum. Frs. 1882 1884	Mini Ins. 0, 12 (T)	Yrs. 1883 1883	age. Ins. 0.50 0.59	Ins. 1. 27 1. 42	imum. F <i>re.</i> 1885 1884	Ins. 0.00 0.00	Yrs. 1883 (1886) (1887)	age. Ins. 0.62 0.66	Ins. 1.73 1.40	mum. Vrs. 1885 1885	<i>Ins.</i> 0.00 0.00]]]
, Blue Creek	age. Ins. 1.22 . 1.21	Ins. 2.54	imum. <i>Yrs.</i> 1882	Mini Ins. 0. 12	Frs. 1883	age. Ins. 0.50	Ins. 1. 27	imam. Fre. 1885	Ins. 0.00	Yrs. 1883 (1886) (1887) 1886	age. Ins. 0.62	Ins. 1.73	mum. Yrs. 1885	Ins. 0.00	1 1 1 1
, Blue Creek , Promontory , Corinne	age. Ins. 1.22 1.21 1.18	Ins. 2.54 4.37	imum. Frs. 1882 1884	Mini Ins. 0, 12 (T)	Yrs. 1883 1883	age. Ins. 0.50 0.59	Ins. 1. 27 1. 42	imum. F <i>re.</i> 1885 1884	Ins. 0.00 0.00	I're. 1883 (1886) (1887) 1886 (1882)	age. Ins. 0.62 0.66	Ins. 1.73 1.40	mum. Vrs. 1885 1885	<i>Ins.</i> 0.00 0.00	
, Blue Creek , Promontory , Coriune , Kelton	Age. Ins. 1.22 1.21 1.18 1.03 0.61	Ins. 2, 54 4, 37 2, 50	imum. Frs. 1882 1884 1885 1884	Mini Ins. 0.12 (T) 0.75	Frs. 1883 1883 1886	age. Ins. 0.50 0.59 0.86	Ins. 1. 27 1. 42 3. 46	imum. Frs. 1885 1884 1873	Ins. 0.00 0.00 0.00	Yrs. 1883 (1886) (1887) 1886	age. Ins. 0.62 0.66 0.64	Ins. 1.73 1.40 2.75	mum. Yrs. 1885 1885 1885	<i>Ins.</i> 0.00 0.00 0.12	
, Blue Creek , Promontory , Coriune , Kelton , Terrace Logan	Age. Ins. 1.22 1.21 1.18 1.03 0.61	Ins. 2.54 4.37 2.50 1.80 1.74	imum. 1882 1884 1885 1884 1884	Mini Ins. 0. 12 (T) 0. 75 0. 05 0. 00	Yrs. 1883 1883 1886 1882 1881	age. Ins. 0.50 0.59 0.80 0.26 0.48	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12	imam. Y <i>rs.</i> 1885 1884 1873 1884 1885	Ins. 0.00 0.00 0.00 0.00 0.00	Yrs. 1883 (1886) (1887) 1886 (1882) 1887 1887 1881	age. Ins. 0.62 0.66 0.64 0.48 0.40	Ins. 1.73 1.40 2.75 1.42 1.23	num. 1885 1885 1885 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00	
, Blue Creek , Promontory , Corinne , Kelton , Terrace , Logan	Age. <i>Ins.</i> 1.22 1.21 1.18 1.03 0.61 2.39	Ins. 2.54 4.37 2.50 1.80 1.74	imum. 1882 1884 1885 1884 1884 1884	Mini <i>Ins.</i> 0. 12 (T) 0. 75 0. 05 0. 00 0. 47	Frs. 1883 1883 1886 1882 1881	age. Ins. 0.50 0.59 0.80 0.26 0.48	Ins. 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11	imum. Frs. 1885 1884 1873 1884 1885 1883	Ins. 0.00 0.00 0.00 0.00 0.00	Yrs. 1883 (1886) (1887) 1886 (1882) 1887 1881 1886	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 	num. 77%. 1885 1885 1885 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T)	
, Blue Creek Promontory , Corinne , Kelton , Terrace , Logan	Age. Ins. 1.22 1.21 1.18 1.03 0.61 2.39 1.20	Ins. 2.54 4.37 2.50 1.80 1.74	imum. 1882 1884 1885 1884 1884	Mini Ins. 0. 12 (T) 0. 75 0. 05 0. 00	Yrs. 1883 1883 1886 1882 1881	age. Ins. 0.50 0.59 0.80 0.26 0.48	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12	imam. Y <i>rs.</i> 1885 1884 1873 1884 1885	Ins. 0.00 0.00 0.00 0.00 0.00	Yrs. 1883 (1886) (1887) 1886 (1882) 1887 1887 1881	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71	Ins. 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40	num. <i>Yrs.</i> 1885 1885 1885 1886 1886 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00	
, Blue Creek , Promontory , Corinne , Kelton , Terrace , Logan , Ogden , Coalville Wanehip	age. Ins. 1.22 1.21 1.18 1.03 0.61	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60	imum. 1882 1884 1885 1884 1885 1884 1885 1883	Mini Ins. 0. 12 (T) 0. 75 0. 05 0. 00 0. 47 1. 00	Yrs. 1883 1883 1886 1882 1881 1883 1877	age. <i>Ins.</i> 0.50 0.59 0.80 0.26 0.48 0.81 1.30	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09	imam. 1885 1884 1873 1884 1885 1883	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25	Yrs. 1883 (1886) (1887) 1886 (1882) 1887 1881 1886 1879	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10	Ins. 1.73 1.40 2.75 1.42 1.23 2.64 2.40	num. 1885 1885 1885 1886 1886 1886 1886	<i>Ins.</i> 0.00 0.12 0.00 0.00 (T) 0.00	
, Blue Creek , Promontory , Corinne , Kelton , Terrace , Logan Ogden , Ogalen , Wanship , Deep Creek Comp Douglas	age. Ins. 1.22 1.121 1.121 1.18 1.03 0.61 2.39 1.20 .063 .063	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87	imum. 1882 1884 1885 1884 1885 1884 1885 1883	Mini <i>Ins.</i> 0.12 (T) 0.75 0.05 0.00 0.47 1.00 0.09	Yrs. 1883 1883 1886 1882 1881 1883 1877 1879	age. Ins. 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06	imum. Yrs. 1885 1884 1873 1884 1885 1883 1883 1878	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T)	Yrs. 1883 (1883; (1887) 1886 (1882) 1887 1881 1886 1879 1879	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48	Ins. 1.73 1.40 2.75 1.42 1.23 2.64 2.40 0.82	nium. 1885 1885 1885 1886 1886 1886 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15	
, Blue Creek , Promontory , Corinne , Kelton , Terrace , Logan Ogden , Ogalen , Wanship , Deep Creek Comp Douglas	age. Ins. 1.22 1.121 1.121 1.18 1.03 0.61 2.39 1.20 .063 .063	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70	imum. Frs. 1882 1884 1885 1884 1884 1885 1883 1883 1883	Mini Ins. 0. 12 (T) 0. 75 0. 05 0. 00 0. 47 1. 00 0. 09 0. 05	Frs. 1883 1883 1886 1882 1881 1883 1877 1879 1863	age. <i>Ins.</i> 0,50 0,59 0,86 0,26 0,48 0,81 1,30 0,53 2,62	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48	imum. 1885 1884 1873 1884 1885 1883 1883 1883 1883	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00	Yre. 1883 (1886) (1887) 1886 (1882) 1887 1887 1887 1888 1879 1879 1879	age. <i>Ins.</i> 0.62 0.66 0.48 0.43 0.40 0.75 0.71 2.10 0.67	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 0. 82 1. 40	num. 1885 1885 1885 1886 1886 1886 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01	
Blue Creek	age. Ins. 1.22 1.21 1.18 1.03 0.61	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87	imum. 1882 1884 1885 1884 1885 1884 1885 1883	Mini <i>Ins.</i> 0.12 (T) 0.75 0.05 0.00 0.47 1.00 0.09	Yrs. 1883 1883 1886 1882 1881 1883 1877 1879	age. <i>Ins.</i> 0.50 0.59 0.80 0.26 0.48 1.30 0.53 2.62	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06	imum. Yrs. 1885 1884 1873 1884 1885 1883 1883 1878	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T)	Yrs. 1883 (1883; (1887) 1886 (1882) 1887 1881 1886 1879 1879	age. <i>Ins.</i> 0.62 0.68 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28	Ins. 1.73 1.40 2.75 1.42 1.23 2.64 2.40 0.82	nium. 1885 1885 1885 1886 1886 1886 1886 1886	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15	
, Blue Creek , Promontory	age. <i>Ins.</i> 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.20 0.60	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70 3.81 0.80	imum. Yrs. 1882 1884 1885 1884 1885 1865	Mini Ins. 0, 12 (T) 0, 75 0, 05 0, 00 0, 47 1, 00 0, 09 0, 03 0, 19 0, 40	Yrs. 1883 1883 1886 1882 1881 1883 1881 1883 1877 1879 1865 1857	age. <i>Ins.</i> 0.50 0.59 0.86 0.48 0.81 1.30 0.53 2.62 2.17 0.65	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24	imum. Frs. 1885 1884 1873 1884 1885 1883 1883 1878 1878 1879 1873 1879 1873	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06	Frs. 1883 (1886) (1887) 1886 (1882) 1887 1887 1881 1886 1879 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1870 1860 1870 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770 1770	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.20	Ins. 1.73 1.40 2.75 1.42 1.23 2.64 2.40 0.82 1.40 5.34 0.39	num. Frs. 1885 1885 1885 1886 1886 1886 1886 1882 1882 1882 1882 1882 1882 1885 1882 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1885 1865 1865 1866 186	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01 0.01	
, Blue Creek , Promontory, , Corinne , Kelton , Terrace , Logan , Ogden , Coalville , Wanehip , Hoep Creck , Camp Douglas , Salt Lake City , Spring Lak ¹ , Villa , Comp Floyd	age. <i>Ins.</i> 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.02 0.60 0.60	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70 3.81 0.80 0.52	imum. Frs. 1882 1884 1885 1884 1885 1885 1885 1885 1885	Mini Ins. 0, 12 (T) 0, 75 0, 05 0, 00 0, 47 1, 00 0, 05 0, 19 0, 40 0, 23	Yrs. 1863 1883 1886 1882 1881 1883 1877 1879 1865 1857	age. Ins. 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.655 0.34	Ins. 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24 0. 45	imum. Frs. 1885 1884 1873 1884 1885 1883 1883 1883 1883 1883 1883 1873 1879 1879 1879	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 	Frs. 1883 (1884) (1887) 1887 1887 1887 1887 1887 1887 1887 1887 1886 1879 1879 1879 1879 1879 1879 1879 1879 1886	age. <i>Ins.</i> 0.62 0.66 0.64 0.43 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.60 0.00	Ins. 1.73 1.40 2.75 1.42 1.23 2.64 2.40 0.82 1.40 5.34 0.39 0.00	num. Yrs. 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1860 1866 1866 1866	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01 0.01 0.01	
, Blue Creek Promontory	age. Ins. 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.20 .0.60 0.52 4.51	<i>Ins.</i> 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70 3.81 0.80 0.52 6.30	imum. Yrs. 1882 1884 1885 1884 1885 1884 1885 1883 1880 1883 1880 1883 1883 1883 1883 1883	Mini Ins. 0, 12 (T) 0, 75 0, 05 0, 00 0, 47 1, 00 0, 03 0, 19 0, 40 0, 23 3, 05	Yrs. 1883 1883 1886 1882 1881 1883 1877 1879 1865 1857 1859 1855 1857	age. <i>Ins.</i> 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.65 0.34 1.96	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24 0. 45 2. 70	imum. 1885 1884 1873 1884 1883 1883 1883 1883 1883 1883 1873 1878 1883 1873	Ins. 0.00 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06 0.23 1.10	Frs. 1883 (1886) (1887) 1886 (1882) 1887 1881 1886 1879 1879 1879 1879 1879 1879 1879 1876 1886	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.20 0.76	Ins. 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 0. 82 1. 40 5. 34 0. 39 0. 00 1. 67	mum. <i>Frs.</i> 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1887 1867 1878 1866 1860 (¹) 1885	<i>Ins.</i> 0.00 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01 0.01 0.00 0.00 0.10] { {
, Blue Creek , Promontory	age. <i>Ins.</i> 1.222 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.20 0.63 2.03 1.25 1.45 1.55 1.55 1.55 1.55 	<i>Ins.</i> 2.54 4.37 2.50 1.80 1.74 4.12 2.60 1.74 2.60 3.70 3.81 0.80 0.52 6.30	imum. 1882 1884 1885 1884 1885 1884 1885 1880 1880 1880 1882 1882 1883 1884 1874	Mini Ins. 0, 12 (T) 0, 75 0, 05 0, 00 0, 47 1, 00 0, 05 0, 19 0, 40 0, 23 3, 05 1, 69	Frs. 1883 1883 1886 1882 1881 1883 1877 1879 1857 1859 1857 1859 1853 1853 1853	age. Ins. 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.65 0.34 1.96 0.34 1.96	<i>Ins.</i> 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24 0. 45 2. 70 10. 30	imum. Frs. 1885 1884 1873 1884 1885 1883 1883 1883 1883 1873 1873 1873 1873	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 	Yrs. 1883 (1883; 1883; 1887; 1887; 1881 1886 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1886	age. <i>Ins.</i> 0.62 0.66 0.64 0.43 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.20 0.00 0.32	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 0. 82 1. 40 5. 34 0. 00 1. 67 0. 83	num. <u>Frs.</u> 1885 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1885 1866 1866 1866 1865 1886 1885 1877	<i>Ins.</i> 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01 0.01 0.01 0.00 0.00 0.00	1 { {
, Blue Creek Promontory	age. <i>Ins.</i> 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.02 0.60 0.52 4.51 0.63	<i>Ins.</i> 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70 3.81 0.80 0.52 6.30 11.40 1.53	imum. Frs. 1882 1884 1885 1884 1885 1885 1885 1885 1885 1885 1885 1889 1879 1882 1883 1887 1877	Mini Ins. 0, 12 (T) 0, 75 0, 05 0, 00 0, 47 1, 00 0, 05 0, 19 0, 40 0, 23 3, 05 1, 60 0, 15	Frs. 1883 1883 1886 1882 1881 1883 1877 1879 1883 1877 1879 1885 1857 1859 1889 1889 1889 1889	age. Ins. 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.655 0.34 1.96 3.54 0.10	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 1. 08 5. 48 10. 05 1. 24 0. 45 2. 70 10. 30 0. 19	imum. Frs. 1885 1884 1873 1884 1883 1883 1883 1883 1873 1859 1873 1859 1859 1859 1859 1859 1859 1859 1859 1859 1859 1859 1857 1859 1855 1857 1855 1857 185	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06 0.06 0.23 1.10 0.00 (T)	Fre. 1883 (1883 (1883) (1887) 1886 (1882) 1887 1887 1888 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1886 1879 1879 1875 1886 1879 1875 1886 1875 1886 1875 1887 1886 1887 1887 1886 1887 1887 1887 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1887 1886 1887 1886 1879 1879 1879 1879 1879 1876 1886 1879 1879 1876 1886 1879 1876 1886 1879 1876 1886 1879 1876 1886 1879 1876 1886 1879 1876 1886 1879 1879 1886 1886 1886 1886 1879 1879 1886	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.67 0.67 0.67 0.67 0.62 0.04 0.75 0.71 2.10 0.48 0.67 0.67 0.62 0.64 0.48 0.40 0.75 0.71 2.10 0.67 0.67 0.67 0.75 0.71 0.67 0.67 0.67 0.67 0.75 0.71 0.67 0.67 0.67 0.67 0.75 0.71 0.67 0.00 0.67 0.76 0.67 0.67 0.67 0.76 0.76 0.67 0.67 0.76 0.67 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.01 0.02 0.00 0.00 0.02 0.01 0.02 0.00 0.02 0.01 0.02	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 5. 34 0. 39 0. 00 1. 67 0. 83 0. 02	num. Yrs. 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1887 1885 1887 1885 1878 1878 1878 1878 1878 1878 1878 1878	<i>Ins.</i> 0.00 0.12 0.00 0.00 (T) 0.00 (T) 0.00 0.15 0.01 0.01 0.00 0.00 0.10 0.02 (T)	1 { {
Blue Creek. Promontory. , Corinne , Kelton , Terrace Logan , Coglen , Coalville , Spring Lakv , Villa , Coalville , Filoro , Sait George	age. Ins. 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.00 0.63 2.02 2.00 0.63 0.52 4.51 0.84 0.84	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 	imum. 1882 1884 1885 1884 1885 1884 1885 1883 1880 1880 1883 1880 1883 1883 1887 1883 1883 1884 1885 1886 1885 1855 1885	Mini Ins. 0.12 (T) 0.75 0.05 0.00 0.47 1.00 0.05 0.19 0.05 0.19 0.40 0.23 3.05 1.69 0.15 0.45	Frs. 1883 1883 1886 1882 1881 1877 1879 1885 1857 1859 1885 1857 1859 1882 1879 1882 1879	age. <i>Ins.</i> 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.653 0.34 1.96 3.54 0.10 3.70	<i>Ins.</i> 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24 0. 45 2. 70 10. 30 0. 19 10. 00	imum. Yrs. 1885 1884 1873 1884 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1884 1873 1884 1885 1855 1885	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06 0.23 1.10 0.00 (T) 0.00	I'rs. 1883 [1883] 1886 (1882) 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1887 1879 1879 1879 1886 1866	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.77 1.28 0.67 1.28 0.20 0.00 0.76 0.32 0.01 0.03	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 0. 82 1. 40 5. 34 0. 00 1. 67 0. 83	num. <u>Frs.</u> 1885 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1885 1866 1866 1866 1865 1886 1885 1877	<i>Ins.</i> 0.00 0.12 0.00 0.00 (T) 0.00 0.15 0.01 0.01 0.01 0.00 0.00 0.00	1 { {
, Blue Creek , Promontory	age. Ins. 1.22 1.21 1.18 1.03 0.61 2.39 1.20 0.63 2.02 2.20 2.20 0.63 0.63 0.64 0.52 4.51 0.64 0.52 0.63 0.64 0.64 0.65 0.64 0.65 0.55	<i>Ins.</i> 2.54 4.37 2.50 1.80 1.74 4.12 2.60 0.87 3.70 3.81 0.80 0.52 6.30 11.53 0.52 2.10	imum. Frs. 1882 1884 1885 1884 1885 1875	Mini Ins. 0. 12 (T) 0. 75 0. 05 0. 00 0. 47 1. 00 0. 03 0. 19 0. 40 0. 23 3. 05 1. 60 0. 15 0. 04 0. 15	Frs. 1883 1883 1886 1882 1881 1883 1877 1879 1865 1857 1857 1859 1857	age. Ins. 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.65 0.34 1.96 3.54 0.10 3.70 2.20	<i>Ins.</i> 1. 27 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 2. 70 10. 30 0. 19 10. 05 2. 25 2. 70 10. 30 0. 19 10. 25 2. 10 2. 25 1.	imnm. Frs. 1885 1884 1873 1884 1883 1883 1883 1883 1873 1859 1873 1859 1873 1859 1873 1859 1869 1873 1859 1855	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06 0.23 1.10 0.00 (T) 0.00 2.15	I'rs. 1883 (1886) (1887) 1886 (1882) 1887 1887 1887 1887 1879 1886 1886 1886 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1879 1870 1886 1866	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.67 1.28 0.67 0.00 0.00 0.00 0.03 0.10	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 0. 82 1. 40 5. 34 0. 39 0. 00 1. 67 0. 02 0. 04	nium. Fre. 1885 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1885 1886 1885 1887 1885 185	<i>Ins.</i> 0.00 0.12 0.00 0.00 0.00 (T) 0.00 0.15 0.01 0.01 0.00 0.00 0.00 0.00	
, Blue Creek , Promontory , Corinne , Kelton	age. Ins. 1.21 1.21 1.18 1.03 0.61 2.39 1.20 0.61 2.232 1.20 0.633 2.02 3.0.84 0.93 2.14	Ins. 2.54 4.37 2.50 1.80 1.74 4.12 2.60 	imum. 1882 1884 1885 1884 1885 1883 1883 1880 1880 1883 1880 1883 1883 1883 1883 1883 1884 1885 1886 1886 1886 1886 1886 1887 1877	Mini Ins. 0.12 (T) 0.75 0.05 0.00 0.47 1.00 0.05 0.19 0.05 0.19 0.40 0.23 3.05 1.69 0.15 0.45	Frs. 1883 1883 1886 1882 1881 1877 1879 1885 1857 1859 1885 1857 1859 1882 1879 1882 1879	age. <i>Ins.</i> 0.50 0.59 0.80 0.26 0.48 0.81 1.30 0.53 2.62 2.17 0.653 0.34 1.96 3.54 0.10 3.70	<i>Ins.</i> 1. 42 3. 46 0. 81 1. 12 2. 11 3. 09 1. 06 5. 48 10. 05 1. 24 0. 45 2. 70 10. 30 0. 19 10. 00	imum. Yrs. 1885 1884 1873 1884 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1883 1884 1873 1884 1885 1855 1885	<i>Ins.</i> 0.00 0.00 0.00 0.00 0.00 0.25 (T) 0.00 0.06 0.23 1.10 0.00 (T) 0.00	I'rs. 1883 [1883] 1886 (1882) 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1887 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1887 1879 1879 1879 1886 1866	age. <i>Ins.</i> 0.62 0.66 0.64 0.48 0.40 0.75 0.71 2.10 0.48 0.67 1.28 0.20 0.04 0.03 0.03 0.10 0.03	<i>Ins.</i> 1. 73 1. 40 2. 75 1. 42 1. 23 2. 64 2. 40 5. 34 0. 39 0. 00 1. 67 0. 83 0. 02	num. Yrs. 1885 1885 1885 1886 1886 1886 1886 1886 1886 1886 1886 1886 1886 1887 1886 1887 1885 1887 1885 1878 1878 1878 1878 1878 1878 1878 1878	<i>Ins.</i> 0.00 0.12 0.00 0.00 (T) 0.00 (T) 0.00 0.15 0.01 0.01 0.00 0.00 0.10 0.02 (T)	

(²) Generally.

Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

(1) Frequently.

(T) Trace of rain-fall,

١



UTAH TERRITORY-Continued.

Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

		•		July.		•	i		A	ugust	t.				Septemb	er.	
Name and number o	f station.	A ver- age.	Maxin	aam.	Mini	imum,	Aver- age.	. M	laxim	um.	Mini	mum.	Aver age.		ximum.	Min	imum.
		Ins.	Ins.	Γrs.	Ins.	Yrs.		In		Yrs.	Ins.	Yrs.	Ins.	Ins	Yrs.	Ins.	Yrs.
377, Blue Creek		0.37	0. 90	1882	0. CO	{1884 {1884 {1884 } {1884 }	2. 0. 62	1.	47	1881	0.00	- 518342 - 218875	0.70	1.80	1884	0.07	1885
378, Promontory		0. 16	0.60	1883	0. 00	(*) 	0.41	1.	20	1881	0.00	`1881	0.66	2.17	1884	0.00	188
379, Corinne		0. 21	0. 65	1886	0. 00	(188) (188) (188)		1.	75	1873	0. 10	1882	0.64	2.90	1884	0.00	1883
380, Kelton		0. 31	1. 32	1887	0. 00	}188 1 1883	0.44	1.	54	18 85	0. 00	1882	0. 36	1. 97	7 1884	0. 00	{1881 {1883
381, Terrace		0.09	0.29	1881	0.00	>188 >188		0.	34	1881	0.00	(¹)	0.34	1. 61	1884	0.00	(*)
382, Logan		0. 08	0.43	1887	0. 00	(*)	0.33	۱ ٥.	62	1883	0.02	1881	0.83	2. 41	1884	(T)	188
384, Coalville		0.34	1.00	1881	0. v0	(')	0.67	1.	90	1881	0.00	1875) 1877	0.35	0.98	1878	0. 00	188
385, Wanship		. 	 ••••		. .					 .		(10//)					
3851, Deep Creek		0. 50	1. 01	1878	0. 00	1879	0. 17	0.	51	1880	0. 0 0	(1878) (1879)	0. 28	0. 50	1877	(T)	187
386, Camp Douglas	· · · · · · · · · · · · · · · · · · ·	0. 80	2. 16	1876	0. 02	1872		2.	11	1874	0. 00	1875	0. 79	2. 64	1878	0.00	{187 {187
387, Salt Lake City			8. 73	18 6 6	0. 00	\$1864 \$1872	3 1.00	9.	43	1 8 67	0. 06	1879	1. 05	3. 15	1876	0.01	187
188, Spring Lake Villa 189, Camp Floyd	••••	1.38	2. 67	1859	0, 00	1858	1.05	0.	43	1858	0. 18	1859	0.53	1.72	1859	0.17	186
190, Goshen		0.00	0.00	(*)	0.00	(2)	0.00	0.		(?)	0.00	(*)	0.30		1882	0 03	188
191, Nephi	••••••	0.56	1.40	1883	0. 02	1:8:	5 1.23	2.	65	1885	0.35	1884	0, 92	1.70	1884	0.15	188
3911, Filmore		0. 64	1.27	1878	0. G J	1879	0.87	1.	62	1878	0.00	1877	0. 48	1.90	1878	0. 00	{1871 1871 1880
	•••••••••	0.95	1.35	1886	0.15	1885		3.		1885	0.54	1887	0.15	0.28		0.07	1885
393, Saint George 394, Harrisburgh		0.62 2.67	1.03 3.60	1863 1870	0.22 0.90	1864 1869		1.		1861 1869	0.11 0.50	1864 1871	0.55 0.30	0.96	1861	0. 20	186
195, Mount Carmel		1.08	3. 25	1874	0.00	\$1877 \$1878	2 1 75	4.		1874	0.00	1877	0. 58	1.50	1876	0. 00	187
396, Kanab	·····	0. 92	1. 50	1876	0. 00	1879	- I'	0.	50	1876	0. 00	{1875) {1879\ [1879\]	0. 54	1.20	\$1875) {18765	0.00	187
	Oct	ober.	·		No	ovembe	ər.			D	ecemb	er.			Yea	г.	
	ver. Maxim	um. M	inimum.	Aver age.	Max	imam.	Minimu	- m.	Aver- age.	Max	inum.	Minimu		dean.	Maximu	m. Mi	nimum.
	Ine. Ine. T	re. I	ns. Yrs.	Ins.	Ins.	Yrs.	Ins. Y	·	Ins.	Ins	. Yrs.	Ins. Y	rs. :	Ins.	Ins. Yr	s. In	s. Trs.
	. 81 1. 9 8 18	382 0	00 18-7	0.62	1.87	1885	0.00 18	82]	0.74	2.50	0 1884	0.00 18	83	8.10	11.03 18	32 2	95 1887
TO Duran and and a	00 1 40 10		aa\$18857	0 70	0.10	1.00		~	A 00	1		0 10 10	i so	0 10	14 87 100	<u>n n</u>	00 100

377, Blue Creek 378, Promontory	Ins. 0. 81 0. 60	Ins. Trs. 1.98 1882 1.42 1882	0.00 18-7	Ins. 0.62 0.76	Ins. Yrs. 1.87 1885 2.12 1883	Ins. Yrs. 0.00 1882 0.00 1887	0.74		Ins. Yrs. Ins. 0.00 1883 8.10 0.10 1886 8.19	Ins. Yrs. 11.03 1882 14.67 1883	Ins. Yrs. 2.95 1887 2.26 1887
379, Corinne 330, Kelton 381, Terrace 382, Logan	0. 84 0. 16 0. 23	1.95 1883 0.57 1886 0.60 1883	0.00 {1886} 1887; 0.00 (1) 0.00 (1) 0.00 1887	0.67 0.34 0.17	3. 09 1885 1. 25 1886 0. 45 1883	0, 05 1884 0, 00 0, 00{1881} 0, 00{1884}	0.87	3.86 1873 3.35 1884 1.38 1884	0. 25 { 1881 } 10. 26 0. 16 1883 0. 03 1885	18. 95 1884 11. 74 1884 9. 47 1884	7.07 1886 2.12 1882 1.08 1887
383, Ogden	1.65 1.54 0.28 0.18 1.57 1.74	3.58 1882 3.66 1887 0.19 1879 3.60 1882 3.75 1884	0. 15 1887 0. 30 1875 0. 17 1878 0. 55 1871 0. 22 1859	1. 10 1. 51 0. 32 1. 33 1. 55	3. 63 1885 4. 92 1875 0. 40 1879 4. 54 1875 5. 87 1875	(1051)	1. 32 1. 28 1. 86 0. 26 2. 36 2. 06	2.96 1884 2.00 1878 3.70 1867 0.55 1877 5.10 1865 6.39 1865	0. 25 1881 13. 72 0. 38 1874 15. 17 0. 38 1874 15. 17 0. 05 1878 4. 77 0. 28 1878 18. 16 0. 11 1876 21. 20	19. 49 1884 21. 02 1875 28. 00 1867 38. 20 1886	8. 31 1882 6. 40 1879 15. 09 1872 10. 94 1880
388, Spring Lake Villa, 389, Camp Floyd 390, Goehen 301, Nephi 3014, Fillmore 392, Frisco	0. 66 0. 37 2. 15 0. 09 0. 57	1. 78 1858 0. 55 1882 2. 25 1883 0. 26 1878 0. 66 1886	0. 00 1859 0. 10 1881 2. 05 1884 0. 00{1877} 0. 00{1877} 1877} 0. 45 1885	1, 23 0, 58 0, 85 0, 24 0, 86	3. 11 1859 0. 70 1>82 1. 70 1883 0. 42 1877 1. 23 1886	0. 09 1869 0. 47 1881 0. 00 1854 0. 00 1879	0. 16 0. 14 2. 70 1. 21		0.14 1800 7.33 0.08 1882 4.96 2.00 1883 20.55 0.00 1877 30.20 0.05 1886 7.72	11. 28 1859 25. 96 1884 66. 70 1878 8. 08 1886	4. 83 1860 13. 72 1883 6. 62 1879 7. 10 1887
392, F 1800 393, Saint George 394, Harrisburgh 395, Mount Carmel 396, Kanab	0.57 1.26 0.10 7.12 0.99	0. 66 1886 1. 36 1864 18. 75 1876 4. 40 1876	0.46 1885 0.80 1865 0.20 1877 0.00 {1875} 1875}	0.86 0.50 1.92 2.25 1.20	1. 23 1886 1. 03 1864 3. 15 1871 4. 50 1874 3. 20 1875	0. 39 1887 0. 23 1861 0. 70 1869 0. 00 1876 0. 00 1877	0. 32 1. 12 0. 06 0. 70 1. 55	1.30 1865 0.10 1871	0.05 1886 7.72 0.94 1864 11.57 0.01 1869 13.14 0.00 1876 36.71 0.00 1876 11.09	8. 08 1886 58. 05 1874 14. 60 1876	22. 50 1876 7. 37 1877
		(') Frequer	ntly.		(*) Gener	ally.		(T) Trac	e of rain-fall.		

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RAIN-FALL OF THE PACIFIC COAST AND

ARIZONA TERRITORY.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

_		a .	La	it.	Lon	.	Eleva-	ł !		Rec	cord.			Remarks as to observers and miss
No.	Name of station.	County.	itu		gitud		tion.	Len	gth.	Fron	a—	To (ii sive		ing records.
197 198	Camp El Dorado Camp Mojave(com- bined with Fort Mojave: eleva- tion, 755 feet).	Mohave do			° 114 114		Feet. 600	0		Apr., Aug.,	1867 1859	June, Oct.,	1867 1887	U. S. post hospital. U. S. post hospital. Record muc broken. Jan., 1861, to Sept., 186 inclusive; May to Aug., 1808, 1 clusive; Nov., 1868, to Mar., 186 inclusive; June to Dec., 1887, i clusive; Jan. to Mar., 1808, incl sive; Sept., Dec., 1882
99	Camp Willow Grove.	Yavapai	35	10	112	57		1	7	Feb.,	1868	Sept.,	1869	Jan., Apr., 1887. U.S. post hospital. Mar., 1869.
00		do	34	52	112	50	5, 321	2	11	Ар г .,	1870	June,	1873	U. S. post hospital. Record broke Sept., Oct., 1870; July, 1871; Apr
01 02	Camp Lincoln	do	34 34	52 34	111 111		3, 500 3, 500	0	10 8	June, Dec.,	1 86 8 1868	May, Nov.,		1873. U.S. post hospital. July, Dec. 186 U.S. post hospital and Signal Ser
03	Prescott (com- bined with Fort	do			112		1	1		Dec.,				ice. Signal Service.
04 05	Whipple). Camp Skull Valley Fort Whipple	do do	84 34	30 29	112 112		5, 000 5, 700			Jan., June,		Apr., Dec.,	1867 1887	U.S. post hospital. Signal Service and U.S. post hospital. Record broken. July, 186 to Aug., 1866, inclusive; Jan. d.A. Aug., 1869, inclusive; Jan. to App
06 07	Camp Date Creek. Camp Keno	do	34 34	20 001		55 001	3, 726	6	3 2	May, Mar.,	1867 1868	July, Apr.,	1873 1868	1875, inclusive. U. S. post hospital. Do.
08	Fort Apache	Apache	33	47		57	5, 020	12	4	Мау,	1875	Nov.,		Signal Service and U.S. post hopital. Record broken. July, Aug Sept., 1875.
09 10	Vnma	Yumado	(33	42	114	18 30	6003 141	2	0	Feb., Oct.,	1869 1875	Feb., Dec.,	1871	U.S post hospital. Dec., 1870. Signal Service. Dec., 1883.
11 12	Usmp La Paz	dodo	33	88 46	114	32		6	5	Sept., July,	1874	Jan., Nov.,	1875	U. S. post hospital. Central Pacific R.R. Record broke Jan., 1882; Nov., 1883; July, 188
13	Wickenburg	Maricopa	33	59	112	44	••••••	8	5	Nov.,	1875	Jan.,	1886	Nov., 1886; Dec., 1887. Signal Service. Apr. to Aug., 18 inclusive; May, 1882, to Sept., 18
14	Fort McDowell	do	33	40	111	53	1, 800	21	2	Sept.,	1866	Dec.,	1887	inclusive. Signal Service and U. S. post he pital. Apr., Oct., 1868; June, 18
15	Phœnix	do	23 	30	112	03		11	1	Feb.,	1876	Juno,	1887	Signal Service. Record broke Jan., June, July, Aug., 18 June, 1877.
16 17 18	San Carlos Camp Goodwin	Gila do Graham	33 83	12 05	110	15 25 90		6	6 11	Jan., June, Jan.,	1881 1866	Feb., Dec., May,	1887	U.S. post hospital. July, Aug., 18 Signal Service. Nov., 1887. U.S. post hospital. Mar., May
9	Camp Thomas Camp Grant (com- bined with Fort Grant; eleva- tion, 4,914 feet).	do do	33 33	03 25	109 109	59 23	2, 710 985	7 19	9 7	Арг. , Sept.,	1880 1866	Dec., Dec.,	1887 1887	Aug., inclusive, and Nov., 1896 Signal Service. U.S. poet hospital and Signal Se ice. Record byoken. Apr., Ju to Sept., 1867, inclusive; Nov., 18 to Mar., 1868, inclusive; No Dec., 1868; Apr., May, June, 18 July, Aug., Sept., 1871; Ju
21	Maricopa	Pinal	33	10	112	61		8	1	Nov.,	1875	July,	1887	July, Aug., Sept., 1871; Jun July, 1886. Signal Service. Record brok Mar., 1878, to June, 1881, inclusiv Out. Dep. 1881. Oct. 1883
22 23		do			111 111			6 5	6 8	Nov., Jaly,	1875 1881	Apr., Nov.,		Oct., Dec., 1881; Oct., 1883. Signal Service. Central Paoiflo R.R. Record broke Aug., Dec., 1881; Jan., 1882; Ja Feb., 1883; Feb., June, 1884; Fe 1886; Dec., 1887.
4	Camp Magollan Fort Lowell		32 32	54 17	.110 110		2,000	0 14	1	Aug., May,		Jan.,	1887	U. S. post hospital. U. S. post hospital. Record brok. Oct., Nov., 1887; Dec., 1871, June, 1874, inclusive; Aug., 18 May to Sept., 1883, inclusive; M to Sept., 1884; Nov., 1884, to Fe
2 8 77	Tucson Pantano	do do	32 31		11 0 110			12 5	6 9	May, July,	1867 1881	May, Oct		1886, inclusive. Signal Service. Central Pacific R. R. Record brok Aug., 1881; May, 1883; June, 18 Dec., 1886, to Feb., 1887, inclusiv May, Nov., Dec., 1887.

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ARIZONA TERRITORY-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			_		_	-	_		-	Record			
No.	Name of station.	County.	La itud		Lon gitud		Eleva- tion.	Leng	gth.	From –	To (ii sive		Remarks as to observers and miss- ing records.
400	Read Dreakener	Dime	0	,	0	,	Feet.				· · ·	1001	T S post hospital Way 1990
428 429		Pimado			110 110	55 40	5, 330			Aug., 185 Apr., 186			U. S. post hospital. May, 1860. U. S. post hospital. Nov., 1838; Aug., Sept., 1872.
430 4301	Tubac Fort Huachuca	do	81 31	40 33	110 110 109	58 13	3, 000 5, 306	0	5 9	Oct., 186 Jan., 188	ct., 1867 Feb., 1868 an., 1886 Nov., 1887		U.S. post hospital. Do.
431	Wilcox	Cochise	32	15	109	47		6	Ō	July, 1881			Signal Service. Record broken. Sept., 1881; Jan., June, 1882; May, 1885; Jan., Feb., 1886.
432	San Simon	đo	32	14	109	08		5	2	July, 1883	Nov.,	1887	Central Pacific R. R. May, 1883; July, Nov., 1886.
433	Fort Bowie	do	32	10	109	22	4, 826	19	5	Aug., 1867	Dec.,	1887	U.S. post hospital. Signal Service. Record broken. Dec., 1870, to Apr., 1871; Nov., 1871, to Feb., 1872, inclusive; Jan., 1878; Jan., 1881; Oct., 1882.
434	Benson	do	31	59	110	18		6	0	Aug. , 1883	Nov ,	1887	Central Pacific R. R. May, 1883; June. Nov., 1884.
435 436	Camp Wallen Fort Defiance	do Navajoe Indian Reservation.		35 43	109 1 0 9	58 10		2 8	8 8	Dec., 1866 May, 1855			U.S. post hospital. Oct., Nov., 1868. U.S. post hospital.

ARIZONA TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			January	7.			1	Februar	у.				March		
Name and number of station.	Aver- age.	Маз	timum.	Min	iwum.	Aver- age.	Max	mum.	Min	imam.	Aver- age.	Maxi	mum.	Miu	imum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Ϋ́rə.	Ins.	Ins.	Yrs.	Ins.	Yr
97, Camp El Doradot	0.45	1.90	75 76	0.00		0.87	5.00	1874	0.00		0.21				•••••
98, Camp Mojave 99, Camp Willow Grove		0.48		0.48	(') 1869	0.87		1869	0.60	(')	0.42	0.92	1886	0.00	()
00. Camp Hualpai		0.10	1869 73 ن 73	0.48	1871	1.92	1.15	1809	0.40	1868 1871	0.42	0. 42 0. CO	1868	0.42	186
01, Camp Lincoln		0.10	12 18	0.00	1011	3.95	4. 60	10/0	0.40	10/1	12.30		(*)	0.00	(ª
U2, Camp Verde	0.84	2. 91	1875	0.00	'72 '85	0.91	3. 59	1884	0.00	1871	1.00	3.60	1884	0.00	73 "
04. Camp Skull Valley	3.11	2. 91	1919	0.00	12 83	1.11	5.09	100#	0.00	10/1	3.09	3.00	100#	0.00	13
05. Fort Whipple		5.09	1836	0.00	'70 '73	1.82	6.55	1884	0.01	1876	1.62	8.00	1867		
06, Camp Date Creek		3.12	1868	0.00	72 73	1. 35	2.85	1869	0.70	1870	0.82	2.86		0.00	18
00, Camp Date Creek		3.12	1909	0.00	12 13	4.30	2.80	1909	0.70	1910		2.80	1869	0.00	'71 '7
		3.90	1886	0.18	1878	1 00		1884	0.94		4.00				•••••
18, Fort Apache						1.83	8.43			1877	1.59	4.44	1884	0.03	18
09, Camp Colorado		0.30	1870	0.00	1871	0.07	0.21	1869	0.00	70 71	0.25	0.50	1869	0.00	18
10, Yuma	. 0.37	1.35	1882	0.00	(1)	0.48	1.72	1877	0.00	1881	0.20	1.48	1884	0.00	- (
11, Camp La Paz			••••	1		· · · · · · · ·				•••••••••	1				• • • • • •
12. Texas Hill		0.93	1886	0.00	'85 '87	0.52	1.81	1884	0.00	1882	0.33	1.75	1884	0.00	
13, Wickenburg	. 1.07	2.73	1876	(T)	1855	1.10	4.21	1884	0.00	1881	0.80	3.67	1881	0.00	18
14, Fort McDowell	. 0.99	3.35	1886	0.00	(9)	1.29	4.37	1884	0.00	1881	0.76	3.47	1884	0.00	(1
15. Phœnix	0.53	1.62	1882	0.00	(1)	0.88	2.46	1884	0.17	1882	0.70	2.14	1884	0.00	18
16, Camp Reno	. 2.46	· • • • •				2. 76		• • • • • • • • •		• • • •	0.88		 .		
17, San Carlos	. 1.13	2.88	1886	(T)	1887	1.77	3, 83	1884	0.93	1882	1. 22	3. 97	1884	0.00	18
18, Camp Goodwin	. 2.41	7.55	1867	0.20	1870	1.82	2.62	1866	0.58	1868	1.04	1.87	1867	0.02	18
19, Camp Thomas	0.62	2.16	1886	0.03	'81 '^ 5	1.27	2, 94	1884	0.13	1881	1.09	3. 21	1884	0.00	18
20, Camp Grant	. 0. 89	2.48	1875	0.00	1-73	1. 20	4.62	1884	0.10	1873	1.01	3.87	1684	0. 60	18
21, Maricopa	. 0.44	1.32	1886	0.00	(1)	, 0, 60	1.65	1886	0.00	1876	0. 67	2.83	1884	(T)	18
22, Florence		2.28	1882	0.00	1881	0.68	1.15	1878	0.00	1876	0.67	1.98	1881	(T)	18
23, Casa Grande	. 0.41	0.90	1886	0.00	'85 '87	0,23	0,40	1887	0.00	1882	0.32	1.08	1884	0.00	(
25, Fort Lowell	. 1.05	4.74	1584	0.00	1887	1.25	5.23	1884	0.00	1880	0.72	2.90	1884	0.00	18
26, Tucson	. 0.71	2.02	1879	0.20	1870	0.85	2.50	1877	0.15	18-0	0.69	1.77	1878	0.03	18
27, Pantano	. 1.11	2.02	1882	0,00	1885	1.40	2.80	1882	0.41	1883	0.75	1.61	1883	0.00	18
28. Fort Buchanan	1.47	2.35	1860	0.54	1859	2.01	2.92	1860	0.51	1858	0.20	0.47	1860	0.00	'58
29, Camp Crittenden	0 68	1.10	1869	0.31	1872	1.15	2.50	1869	0. 19	1872	0.70	1.13	1870	0.00	18
30, Tubac	0.81					0.29									
304, Fort Huachuca	0.59	1.18	1886	0.00	1887	0.97	1.94	1886	1.30	1887	0.10	0.20	1886	0.00	18
31, Wilcox	0.52	1.25	1883	(T)	1887	1.11	1.83	1887	0.31	1883	0.77	1.75	1884	0.00	'82
32, San Simon	0.22	0.50	1883	0.01	1887	0.40	0.78	1887	0.05	1285	0.65	2. 21	1884	0.00	'86'
33, Fort Bowie	1. 27	4.24	1886	0.00	1873	2.00	5.40	1874	0.20	1881	1.20	4.48	1886	0.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
34, Benson		0.79	1886	0.00	1887	0.74	1.20	1882	0.34	1887	0: 57	2.08	1883	0.00	'82 '
35. Camp Wallen	2.43	4.60	1867	1. 10	1868	1. 59	2.30	1867	0.50	1868	0.52	0.67	1869	0.30	18
36, Fort Defiance		2.86	1860	0.02	1859	0.56	1.71	1855	0.03	1861	0.68	3.30	1855	0.00	18
	0.00	a. 00	1000	0.02	1000	10.00	4	1000	0.00	1001	1 0.00	0.00	1000	0.00	10

			A pril	•		i:		May.			1		June.		
Name and number of station.	Aver- age.	Max	imum.	Min	imu m .	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Max	imum.	Mini	mum.
	Ins.	Ins.	Trs.	Ins.	Yrs.	Ins.	Ins.	I'rs.	Ins.	Γrs.	Ins.	Ins.	Γrs.	Ins.	Trs
97, Camp El Dorado	0.00		••••		•••••	0.00					0.00			· • • • • • •	••••••
98, Camp Mojave	0.35	4.05	1871	0.00	(1)	0.14	1.20	1873	0.00	(*)	0.60	1.00	1872	0.00	(*)
99, Camp Willow Grove	0.59	1.02	1869	0.16	1868	0.20	0.28	1868	0.12	1869	0. 03	0.07	1869	0.00	186
00, Camp Hualpai	1.62	1.97	1871	0.07	1870	0.63	1.18	1870	0.10	1871	1.28	3.60	1872	0 . 00	1871
01, Camp Lincoln	3.99					0.27			i		0.33				
02, Camp Verde	0.63	1.75	1878	0.00	1873	0.24	1.70	1877	0.00	(')	0.26	1.35	1882	0. 00	(¹)
04, Camp Skull Valley	0.30		••••••	·	••••						· · · · · · · · ·				••••••
05, Fort Whipple	1.05	2.86	1878	0.03	1879	0.62	1.82	1877	0.00	(!)	0.19	1.24	1872	0.00	()
06, Camp Date Creek	0.87	2.05	1872	0.00	1870	0.13	0.63	1868	0.00	(1)	0.24	1. 49	1869	0.00	(²)
07, Camp Keno	2.70		• • • • • • •		•••			••••			· · · · · · · ·		• • • • • • • • •	·	
08, Fort Apache	0.83	1.77	1878	0, 08	1876	0.49	1.31	1884	0. 3 0	(1)	0.83	3. 27	1882	(T)	188
09, Camp Colorado	0.08	0.15	1869	0. 00	1870	0, 02	0.05	1870	0.00	1869	0.00	0. 00	'69 ' 70	0.00	'69 '7
10, Yuma	0.11	0.55	1581	0.00	(')	0.04	0.44	1884	0.00	(')	(T)	0. 05	1882	0.00	(²)
11, Camp La Pazt.			• • • • • • • •		. . .		' . .		·				• • • • · • • • • • • • • • • • • • • •		. .
12, Texas Hill	0. 08	0.23	1884	0 00	(1)	0.05	0. 28	1884	0.00	(2)	0.00	0.00	(²)	0.00	(*)
13, Wickenburg	0.52	1.24	1884	0.13	1879	0.30	0.64	1884	0.00	'79 '80	0.02	0.06	1884	0.00	(')
14, Fort McDowell	0.41	3. 20	1878	0.00	(1)	0.13	1.04	1877	0.00	(*)	0.14	1.00	1876	0.00	(²)
15, Phœuix	0.33	1.25	1878	0.00	(1)	0.11	0.65	1885	0.00	(')	0.10	0.49	1880	0.00	(i)
16, Camp Reno	0.03		. . .			· 0.00			'		0.50		• • • • • • • • • •		
17, San Carlos	0.21	0.84	1884	0.00	`82 '83	0.31	0.71	1882	0.00	1886	0.34	1,09	1-82	0.00	(e)
18, Camp Goodwin	1.30	2.67	1866	0.00	1867	0.00	0.01	1867	0.00	(')`	0.69	2.06	1869	0.00	'67 `6
19, Camp Thomas	0.26	0.72	1884	0.00	18×3	0.59	2.73	1187	0.00	'80 '86	0.36	1.26	1882	0.00	Ū.
20, Camp Grant	0.60	3. 11	1871	0.00	'73 '76	0.27	1.16	1883	0.00	(¹)	0.67	1.47	1882	0.00	- 6
21, Maricopa	0.14	0.51	'81 '87	0.00	'76 '85	0.11	0.41	1877	0,00	'76 '86	0.10	0.45	1876	0.00	'77`8
22, Florence	0.42	1.55	1878	0.00	1877	0.07	0 31	1877	0.00	(1)	0.02	0.07	1876	0.00	- Č
23. Casa Grande	0.06	0.30	1887	0.00	(²)	0.07	0.24	1883	0 00	(²)	0.08	0, 40	1887	0.00	(2)
25, Fort Lowell	0.28	1.09	1868	0.00	- 26	0.06	0.42	1877	0.09	(2)	0 35	2.05	1876	0.00	ંગ
26, Tucson	0. 26	1.09	1868	0.00	' 69 '76	0.07	0.41	1877	0.10	(*)	0.21	0.99	1882	0.00	(ť)
27, Pantano	0.06	0. 30	1886	0.00	(²)	0.28	0.60	1782	0.00	1~86	0.53	0.99	1885	0.00	186
28, Fort Buchanan	0.60	1.46	1858	0.00	1861	0.18	0.55	1861	0.00	'57 '58	0.82	1.96	1861	0.20	185
29, Camp Crittengen	0.26	0.39	1568	0.00	1869	0.05	0.20	1871	0.00	(*)	0.31	0.68	1872	0.00	186
30. Tubact.	0. 20	0.00	1000	0.00	1000	1 0.00	0.20	1011	0.00	()	0.01	0.00	10.2	0.00	100
301, Fort Huachuca	(T)	(T)	1886	0.00	1887	0.00			1	•••••	0.36	0.72	1877	0.00	188
B1. Wilcox	0.01	0.03	'85 '87	0.00	(1)	0.16	0.48	1887	0.00	·····	0.22	0.47	1887	(T)	188
32. San Simon	0.02	0.10	1887	0.00	6	0.10	0.34	1884	0.00	'86 '87	0.02	0.08	1884	0.00	(*)
33, Fort Bowie	0.02	1.00	1878	0.00	8	0. 29	1.50	1883	0.00	<u> </u>	0.02	4.21	1886	0.00	8
34. Benson	(T)	(1)	'84 '87	0.00	6	0.29	0.08	1887	0.00	(i)	0. 76	4.21	1882	0.00	· 86 '8
35, Camp Wallen	0.25	0.50	1868	0.00	1867	0.02	0.10	1868	0.00	'67 '69	0.03	0.05	1869	0.00	186
28 Fort Defense							1.51	1854	0.00	'58 '60		2.35	1869		
36, Fort Defiance	0.67	1.64	1858	0, 02	1860	0.52	1. 91	1004	0.00	00 00	0. 74	2.30	1002	0.10	1856

ARIZONA TERRITORY-Continued.

Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

			July.			1		Augus	t.			s	eptemb	er.	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	num.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	I'rs.	Ine.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
398, Camp Mojave	. 0. 32	1.80	1881	0,00	(1)	0.69	3.80	1873	0.00	(*)	0.10	0.83	1876	0.00	(1)
399, Camp Willow Grove		4.67	1868	1.43	1869	2.37	2.73	1868	2.01	1869	0.07	0.14	1868	0.00	1869
400, Camp Hualpai		4.91	1870	2.30	1872	7.02	6.40	1872	2.80	1871	3.15	4.10	1871	2.20	1872
401, Camp Lincoln						1.79					1.27				•••••
402, Camp Verde		5. 31	1876	0.07	1869	3.08	12.08	1876	0.26	1871	1.06	4.72	1887	0.00	(2)
404, Camp Skull Valleyt	· · • • • • •														
405, Fort Whipple		7.98	1870	0.61	1881	3.03	6.34	1878	0.24	1877	1. 16	4.88	1887	0.00	(¹)
406, Camp Date Creek	. 3.19	7.24	1868	. 0. 36	1873	3.78	8.30	1868	0.84	18.1	0. 29	0.93	1868	0.00	(*)
407, Camp Kenot								• • • • • • • •					· · · · · · · ·		
408, Fort Apache	4.22	5.83		0.14	1884	4. 58	9.33	1878	1.20	1877	1.68	5.41	1881	0. 44	1885
409, Camp Colorado	. 0.03	0.06	18:0	0.00	1869	0.25	0.30	1869	0. 2 0	1870	0.00	0.00	(¹)	0.00	(!)
410, Yuma		0.55	1878	0.00	(1)	0.45	2.23	1886	0.00	(י)	0.15	1.09	1887	0.00	- Ò
411, Camp La Paz											0.00				
12. Texas Hill		0.68	1883	0.00	(1)	0.67	2.25	1885	0.00	1884	0.43	2.89	1887	0.00	(*)
413. Wickenburg	. 0. 81	2.29	1880	0.09	1878	1.99	5.02	1881	0.05	1877	0.66	1.16	1881	0.04	1885
414, Fort McDowell	. 1.32	9.16	1872	0.00	(*)	1.60	7.17	1872	0.06	1877	1.03	4 11	1887	0.00	(1)
415, Phœnix	0. 78	2.40	1878	0.05	1886	1.02	2.19	1881	0.02	1877	0.62	1.50	1884	0.07	1885
416 Camp Reno											0.02				1000
416, Camp Reno	1.82	4.18	1881	0.03	1886	2.94	6.05	1882	1.11	1883	0.79	1.94	1881	0.11	1883
18, Camp Goodwin	3. 35	3. 39	1868	8.20	1869	6.78	14.45	1869	2.16	1868	3.80	10.40	1266	0.02	1869
19. Camp Thomas	1.87	4.18	1881	0.10	1886	2, 63	4.02	1886	2.04	1884	1.04	3.87	1887	(T)	1883
420, Camp Grant	3.37	9.00	1887	0.67	1884	3. 59	7.41	1876	1.08	1875	1.93	4.65	1868	0.60	(1)
21, Maricopa	0. 36	1.26	1877	0.16	1886	0.95	1.29	1876	0.08	1886	0. 36	1. 10	1:84	(T)	1885
122. Florence	1.59	4.53	1876	0.00	1877	2,05	4.28	1881	0.13	1877	1.06	2.75	1878	ò. 26	1876
23. Casa Grande		1.07	1887	0.00	- <u>(</u>)	1.03	2.37	1844	0.00	1882	0.28	1.99	1887	0.00	(1)
24, Camp Magollan			1001	0.00		0.13	2.01	1011	0.00	1008	v. 20	1	1001	0.00	()
125, Fort Lowell	2.44	4.83	1876	(T)	1886	2.78	7.88	1878	0.34	1877	1.20	3.83	1868	0.00	(1)
126, Tucson		5.72	1878	0.84	1879	2.74	6. 32	1882	0.02	1877	1. 21	8.83	1868	0.00	- 8
27. Pantano		4.51	1882	(T)	1882	2.87	5.74	1882	1.63	1885	1.50	3.30	1881	0.00	1882
128, Fort Buchanan	5.25	9.24	1859	8.21	1858		10.60	1857	3.50	1858	2.03	4.76	1857	0.74	1859
29. Camp Crittenden		11.72	1868	3.17	1872	4.88	5.55	1870	4.07	1868	0.94	1. 55	1869	0.40	1868
30, Tubact	0.01	11. 70	1000	0.11	1010	1.00	0.00	1010	1.07	1000	0.01	1. 00	1009	U. 20	1000
304, Fort Huschuca	2.74	4.08	1887	1.41	1886	4.24	•••••	•••••	•••••	•••••	2.47	8.48	1887	1.46	1886
31. Wilcox	1.63	3.97	1881	0.11	1882	3. 81	5. 81	1887	1.54	1884	1.50	2.96	1887	0.04	1883
32. San Simon		1.25	1883	0.00	1887	1.64	8.60	1882	0.00	1887	0.62	2.90	1886		1885
33, Fort Bowie		1.20	1883	0.00	1873	1.04	8.00 7.44	1882						(T)	
		2.97	1883		18/3				0.18	1877	1.31	3.19	1875	0.01	1873
				0.58		2.50	4.83	1881	0.27	1884	0.75	2.92	1887	0.10	1883
35, Camp Wallen		7.90	1868	1.40	1869	4.90	8.60	1869	2.50	1867	0.90	2.00	1868	0. 20	1867
36, Fort Defiance	2.46	5.77	1860	0.90	1852	2.73	5.24	1854	0.30	1860	1.86	3.47	1854	0, 49	1860

N		Octobe	r.	1	Novemb	юг.		Decemb	er.		Year.	
Name and number of station.	Aver- age.	Maximum.	Minimum	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.
398, Camp Mojave 899, C'mp Willow Gr. 400, Camp Hualpai	Ins. 0. 19 0. 33 0. 45	Ins. Frs. 2.00 1874 0.33 1868 0.60 1871	Ins. Yrs. 0.00 (¹) 0.33 1868 0.30 1872	<i>Ins.</i> 0.39 0.23 0.28	Ins. Yrs. 2.00 1874 0.23 1868 0.50 1872	Ins. Yrs. 0.00 (1) 0.23 1868 0.00 1871	Ins. 0.73 0.35 0.87	Ins. Yrs. 5.69 1884 0.35 1868 1.70 1872	Ins. Yrs. 0.00 (¹) 0.35 1869 0.20 1871	Ins. 5.04 9.00 20.89	Ins. Yrs. 11.60 1874	Ins. Yrs. 2.23 1860
401, Camp Lincoln 402, Camp Verde 404, Camp Skull V'yt	0.58 0.48	2. 10 1876	0.00 (¹)	1.08 0.97	4.04 1869	0.00 (1)	1. 24	4. 66 1884	0,00 (¹)	11.44	17.72 1884	4.80 1871
405, Fort Whipple 406, Camp Date Cr'k 407, Camp Kenol	0.56 0.46	1.59 1870 1.50 1870	0.00 (¹) 0.00 1869	0.72 0.64	2.46 1885 1.90 1869	0,00 (¹) 0.00 (¹)	1, 53 1, 20	5.58 1884 4.09 1867	0.00 (¹) 0.06 1871	16. 83 13. 76	27.13 1874 27.84 1868	10.02 1880 13.60 1870
408, Fort Apache 409, Camp Colorado. 410, Yuma	1.45 0.30 0.12 0.20	4.68 1881 0.50 1870 1.11 1886	0.00 (¹) 0.10 18C9 0.00 (¹)	0.99 0.50 0.36	2.34 1882 1.00 1869 2.43 1887	0.02 1883 0.00 1870 0.00 (*)	1.67 0.20 0.38	5.52 1884 0.20 1869 1.96 1884	0. 22 1876 0. 20 1869 0. 00 (¹)	21. 84 1. 85 2. 81	31.12 1881 2.61 1869 5.86 1884	12.41 1877 1.31 1870 0.74 1880
411. Camp La Paz 412. Texas Hill 413. Wickenburg 414. Fort McDowell 415. Phœnix	0, 59 0, 18 0, 26 0, 27	2. 51 1881 0. 58 1876 1. 38 1884 1. 12 1884	0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 1878	1.30 0.30 0.51 0.81 0.42	1.40 1887 1.09 1879 2.76 1874 1.66 1879	0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 (¹)	0.00 0.42 1.87 1.80 0.89	1.31 1884 5.27 1#84 5.70 1867 8.36 1883	0.00 (¹) 0.00 1876 0.00 (¹) 0.00 (¹)	3. 78 9. 83 10. 54 6. 63	5.62 1884 17.17 1884 20.01 1872 12.83 1884	2.31 1885 6.35 1877 4.94 1871 3.77 1885
 416, Camp Reno 417, San Carlos 418, Camp Goodwin 419, Camp Thomas 420, Camp Grant 421, Maricopa 422, Florence 423, Casa Grande 	1.00 0.63 1.39 0.40 0.78 0.34 0.72 0.34	1.49 1884 3.70 1866 1.12 1886 3.06 1884 1.51 1884 1.29 1879 1.31 1884	0.00 1882 0.50 1868 0.00 1882 0.00 (¹) 0.00 (¹) 0.00 1885 0.00 1878 0.00 (¹)	3.50 0.56 1.19 0.84 0.89 0.16 0.47 0.27	1.58 1882 2.40 1867 0.77 1882 3.38 1873 0.56 1885 1.37 1878 1.28 1887	0.00 1883 0.41 1869 0.00 1883 0.00 (¹) 0.00 1883 0.00 (¹) 0.00 (²)	0.70 1.64 2.81 0.27 1.50 0.85 1.04 0.81	5. 48 1884 5. 20 1867 5. 16 1884 5. 93 1884 2. 97 1884 2. 02 1877 3. 20 1884	0.00 1886 0.60 1868 0.04 1836 0.09 1886 0.00 (¹) 0.00 1876 0.00 (²)	13. 36 26. 58 10. 74 16. 65 5. 08 9. 61 4. 21	20. 41 1884 27. 93 1867 18. 16 1884 25. 67 1884 11. 96 1884 13. 49 1878 8. 71 1884	8. 19 1885 16. 00 1868 8. 66 1882 8. 95 1870 0. 38 1882 5. 35 1880 2. 02 1885
424, Camp Magollant 425, Fort Lowell 426, Tucson 427, Pantano 428, Fort Buchanan. 429, C'mp Crittenden 430, Tubac	0.06 0.34 0.95 1.16 0.23 0.00	2. 65 1876 1. 08 1874 2. 80 1884 2. 33 1859 0. 46 1869	0.00 (¹) 0.00 (¹) 0.00 (¹) 0.60 1858 0.00 1870	0.52 0.49 0.42 1.09 0.37 0.35	2.80 1878 1.70 1867 1.15 1882 2.84 1859 1.01 1869	0.00 (1) 0.00 (1) 0.00 (1) 0.00 1857 0.00 (1)	0.88 0.99 1.09 1.15 1.81 2.57	3. 18 1883 3. 31 1879 4. 70 1884 2. 58 1858 3. 76 1872	0.00 1876 0.00 1876 0.00 (¹) 0.40 1859 0.40 1871	11. 59 11. 46 12. 53 22. 12 17. 39	14. 69 1869 16. 66 1878 13. 86 1882 25. 82 1859 19. 08 1869	6.21 1870 6.61 1880 8.96 1885 16.08 1858 15.53 1871
4304, Ft. Huachuca. 431, Wilcox 432, San Simon 433, Fort Bowie 434, Benson 435, Camp Wallen	0.79 0.78 0.30 0.57 0.59 0.00	0.84 1886 3.59 1884 1.63 1884 3.58 1884 2.89 1884 0.00 1867	0.74 1887 0.00 (¹) 0.00 1867	0.35 0.58 1.24 0.13 0.74 0.22 0.00	1. 16 1887 4. 25 1884 0. 35 1883 1. 79 1883 0. 80 1882 0. 00 1867	(T) 1886 0.00 (¹) 0.00 1867	0.20 1.17 0.40 1.34 0.70 2.93	3.49 1884 1.03 1884 6.41 1884 2.50 1884 7.90 1868	0. 00 1881 (T) 1885 0. 00 (¹) 0. 15 1882 0. 00 1866	13.04 12.92 5.12 16.11 8.32 18.90	18.38 1884 25.20 1884 24.53 1868	16. 49 1867 9. 63 1873 17. 76 1867
436, Fort Defiance	0. 70	1. 73 1857 103, See Fort	0.00 (¹)	1. 16	4.30 1857 No data.	0. 15 1860 (¹) Freq	0.87	1.59 1855	0. 23 1859 enerally.	13. 84 (T)	22.44 1854	11.63 1856

S. Ex. 91-10

RAIN-FALL OF THE PACIFIC COAST AND

COLORADO.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

				-	_		Record	l.	Densels and all and a state
No.	Name of station.	County.	Lat- itude.	Lon- gitude.	Eleva- tion.	Length	From-	To (inclu- sive)—	Remarks as to observers and miss- ing records.
137	Fort Collins	_Routt	° / 40 38	o / 105 05	Feet. 5,000	Yrs. M. 6 1	Nov., 1872	▲ug., 1887	R. Q. Tenney; Charles F. Davis Record broken. May, Dec., 1873 Feb., Sept., Nov., 1874; years 1876 1876, 1877, 1878; Jan. to Sept., in clusive, 1879; Jan., Nov., 1880 Apr. to Dec., inclusive, 1881; Jan. Feb., Dec., 1882; Apr., May, July 1883; June to Sept., inclusive 1884; Feb. to Dec., inclusive, 1885; Feb and Mar., 1887; Sept. to Dec., in clusive, 1887.
38 39	Estes Park Fort Sedgwick	Weld	40 28 41 00	105 29 102 30	3, 660	0421			A. Q. McGregor. U.S. post hospital. Record broken Mar. to Dec., inclusive, 1868; Jan. Feb., Apr., May, June, Sept., Nov. 1869.
40	Fort Morgan	do Logant	40 18	103 45	4, 500	1 0	Dec., 1866	Apr., 1968	U. S. post hospital. Record broken Feb., Mar., Nov., Dec., 1867; Jan. 1868.
41 42 43	Akron Walden Hot Sulphur	Washington Granddo	40 45	103 12 106 15 106 10		0 1 0 1 1 10	Aug., 1887	·	Colorado State Weather Service. Do. William N. Byers.
44	Springs. Golden City	Garfield	39 44	105 18	5, 240	50	Мау, 1860	Aug., 1887	J. McDonald, M. S. Blounte, E. I Berthoud, G. W. Davies, H. J Freech. Nov., Dec., 1860; year 1860 to 1871; Sept. to Dec., 1871 inclusive; Jan. to Apr., inclusive; sive, Aug., Dec., 1872; Jan., Feb Oct., Nov., 1873; May to Sept inclusive, and Dec., 1874.
45 46	McGregor Ranch . Denver	Boulder Arapahoe Eaglet	40 22 38 30	105 27 105 00	5, 250	04 181		Apr., 1873 Dec., 1887	A. Q. McGregor. W. N. Byers, S. T. Sopris, Signa Service.
47 48 49 50	Mountain City Hutchinson Idaho Springs	Summit† Gilpiu Jefferson	39 31 39 43	105 30 105 16 105 32 105 42		0 5 1 0 0 7	Jan., 1875 Aug., 1886	Dec., 1875 Aug., 1887	Dr. W. T. Ellis. Jan., 1861. J. C. Stanton. Colorado State Weather Service Record broken. Nov. and Dec 1886; Jan. to Apr., 1887, inclusive W. R. Bradley. Record broker
				, , ,					Nov., 1878; June, July, Sept. t Dec., 1879, inclusive; years from 1879 to 1885, inclusive; Jan. t July, 1886, inclusive.
51 52 53	Montgomery Alma Hugo	Parkdo do Douglast Elbert	39 18	106 08 106 05 103 25	11,000 10,320 5,060	06011	Aug., 1886	June, 1887	J. Luttrell. Colorado State Weather Service. Do.
54	Ranch near San- born.	do	38 42	103 48		0 1			Do.
55	Grand Junction	Mesa	39 05	-108 30		1 0	Apr., 1884	Dec., 1887	Frank McClintock. Record broker May, June, Oct., Nov., Dec., 1884 1885 and 1886; Jan. to Apr., 188 inclusive.
56 57	Whitewater T. S. Ranch	do do Pitkint	39 00 38 02	108 30 108 08		0402			Colorado State Weather Service. Colorado State Weather Service July, 1887.
58	Gunnison	Laket Gunnison	38 34	.106 52		0 1	Mar., 1884		Dr. J. L. Bennett.
59	Husted	Deltaf El Paso	39 60	104 50	6, 550	0 11	May, 1886	Aug., 1887	Colorado State Weatner Servic Broken record. Dec., 1886; Ja to Apr., 1887, inclusive.
60 61	Templeton Gap Colorado Springs .	do do	38 58 88 52	105 09 104 45		0 677		Aug., 1871 Dec., 1887	A. M. Merrimann. June, 1871.

† No data.

COLORADO-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			_		_				R	scord.			
No.	Name of station.	County.	La itud		Lon- gitude	Eleva tion.		ngth.	Fro	m —	To (in sive		Remarks as to observers and miss- ing records.
463 463 464	Seven Lakea	El Pasodo dodo	o 38 38 38 38	50 45	o / 105 0 104 5 104 4	8 11,000	Yrs 14 0 2	2	Nov., Aug., Nov.,	1886	Nov., Sept., Feb.,	1886	Signal Service. Dec., 1887. Colorado State Weather Service. C. J. Croft. Record brokeu. Jan. May, June, Oct., and Nov., 1872 Jan., June, Dec., 1873; Jan. t Mar., inclusive, Aug., Sept., 1874
165 166{	Salida Las Animas Fort Lyon	Chaffee Bentdo	38 88 38	05	105 5 103 0 103 0	7 8,899	}19	7 0	Feb., Jan.,		Sept., Dec.,		C. B. Underhill. Aug., 1886. Signal Service and U. S. post hos pital. Record broken. Jan. an Oct., 1869: Nov., 1874; Jan. tu Mar., inclusive, and Nov., 1875 Mar., Apr., Nov., Dec., 1876; Jan. 1877; Mar., Dec., 1879; Jan., Mar. Apr., Dec., 1880; Jan., Feb., Sept.
406 <u>1</u> 467 468 469	Carson City	do Montrose Fremont Pueblo	38 38 38 38	44 30 30 16	102 1 107 5 105 0 104 3	6 5, 780 0 4 , 700	2208	8 11 1 9	Aug., Feb., Dec., Sept.,	1909	May, Dec., Aug.,	1887	Oct., Dec., 1881. Signal Service. Do. T. Macon. E. S. Nettleton. Record broken Oct., 1872; Nov., Dec., 1873; Mar. May, and Aug., 1874; May, 1875 Jan., Apr., July, and Aug., 1876 Dec., 1877; years 1879 to 1882, in clusive; Jan. to Sept., 1833, inclu sive; Sept. to Dec., 1886, inclusive;
470	Fort Reynolds	do	88	15	104 1	2 4, 300	3	0	Jan.,	1869	Mar.,	1872	Jan., July, and Sept. to Dec., 1887 inclusive. U. S. post hospital. Record broken Feb., Mar., and Apr., 1869; Dec.
471	Saguache	Saguache	38	06	106 1	0 7, 740	0	9	Sept.,	1886	Aug.,	1887	1871. Colorado State Weather Service Record broken. Dec., 1896; May
472	Pandora	Our a y	38	03	107 4	8, 700	0	6	Aug.,	1886	July,	1887	July, 1887. Colorado State Weather Service Record broken. Nov., 1886; Jan
473 474	Ula Westcliffe	Custerdo	38 38	12 07	105 2 103 2		0	2 8	May, Apr.,		June, July,		to May, 1887, inclusive. Erich Richler. Colorado State Weather Service Record broken. July, Aug., Oct. 1886; Feb. to June, 1887, inclusive
475	Fort Massachu-	San Miguel.† Hinsdale.† Hu'erfano	37	32	105 2	3	5	1	Oct.,	1852	Jaly,	1858	U. S. post hospital. Record broken Oct., Nov., and Dec., 1853; Jan. t Apr., inclusive, Nov., 1854; Aug.
476	Silverton	San Juan	87	47	107 3	7 9, 400	1	7	▲ pr.,	1875	Feb.,	1887	1855; Aug. to Dec., 1858, inclusive A. N. Fuller. Record broken. Aug. Sept., 1875; July to Dec., 1876, in clusive; years 1876 to 1885, inclu sive; Jan. to Sept., 1886, inclusive
477	Monte Vista	Dolores.† Rio Grande	87	37	106 0	2 7, 200	0	10	Aug.,	1886	Aug.,	1887	Colorado State Weather Service Record broken. Dec., 1886; Feb.
478	Summit	do	37	2 8	106 3	0	. 3	7	Aug.,	1876	Oct.,	1880	May, 1687. Charles E. Robins. Record broker Oct., Nov., Dec., 1879; Jan. t
479 480	Trinidad Fort Garland	Las Animas Castilla			104 3 105 2			6 7	Aug., Oct.,	1877 1858	Feb., Oct.,		 May, 1880, inclusive. C. B. Park. U. S. post hospital. Record broken July, 1875; May, June, and July 1878; Jan., 1863; Jan. to Aug 1864, 1865, 1896, inclusive; Nov and Dec., 1867; Feb., Apr., an
481	Hermosa	Le Plata	37	24	107 5	0 6, 700	. 6	11	▲pr.,	1875	Aug.,	1882	May, 1868; Nov. and Dec., 1883. A. N. Fuller. Record broken. June Oct., Dec., 1881; Jau., Feb., an
482	Durango	do	87	15	107 5	0 6, 400	0	4	Sept.,	1886	Jan.,	1887	Mar., 1882. Colorado State Weather Service Missing record Dec. 1886.
483	Fort Lewis	do Archuleta.† Conejos.†	37	14	106 5	9 8, 500	7	2	Jan.,	1880	Nov.,	1887	Missing record. Dec., 1886. U. S. post hospital. Record broker Mar., May to Dec., 1880, inclusive

† No data.

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COLORADO-Continued.

		Januar	y.		Februar	y .		March	•
Name and number of station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.
•	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Trs.
87, Fort Collins 88, Estes Park	1.20 0.16	2.80 1883	0.30 1873	2.11 4.39	7.42 1883	0. 25 1883	0.92	1.45 1881	0.17 1882
39, Fort Sedgwick	0.79	1.85 1868	0.14 1871	1.77	4.98 1868	0.06 1870	0.95	1. 25 1869	0.68 1871
0, Fort Morgan		· · · · · · · · · · · · · · · · · · ·	•••••	0. 29	· • • • • • • • • • • • • • • • • • • •	•••••	0.37	•••••	
2, Waldent									
3, Hot Sulphur Springs	2. 26	3.57 1875	0.94 1876	1.32	1.86 1876	0.77 1875	2.68	3.98 1876	1.38 1875
4, Golden City 5, McGregor Ranch	0.63	0.80 1874	0.30 1884	0. 91 0. 33	1. 13 1874	0.51 1877	2.05 4.52	6.66 1876	0.41 1873
6, Denver	0. 69	3.38 1875	0.10 1878	0.54	1.70 1870	0.11 1876	0.96	1.82 1878	0.22 187
7, Mountain City 8, Hutchinson	·	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	0.25 0.65	•••••	••••	0.97 1.12	· • • · · • • • • • • • • • • • • • • •	
9, Idaho Springst	1.11			0.05	· • • • • • • • • • • • • • • • • • • •		J. 14		
), Georgetown	1. 23	1.39 1879	1.07 1887	0.70	1.29 1879	0.11 1887	0. 40	0.60 1887	0. 20 187
, Montgomery 2, Alma	4.55	••••••		1.00			8.70 0.24	••••••	
3. Hugot	0.94	•		0. 46	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	0.24		
, Ranch near Sanborn †	1	. 							
6, Grand Junction †				1 51	· • • • • • • • • • • • • • • • • • • •		1.36		
7, T. S. Ranch }	ı	· • • • • • • • • • • • • • • • • • • •		1 51			1.00	· • • • • • • • • • • • • • • • • • • •	
8, Guunison							1. 20		
9, Husted 9, Templeton Gap		· • • • • • • • • • • • • • • • • • • •		0. 13 0. 55	••••••••••••	·····	0. 61		
, Colorado Springs		0.78 1875	0.12 1876	0.24	1.56 1875	0.00 1883	0.53	1. 12 1875	0.15 188
2, Pike's Peak	1.65	4.26 1880	0.10 1884	1.38	3.91 1885	0.36 1882	2.14	4.72 1886	0.39 188
8, Seven Lakest		· • • • • • · • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	0. 12	0. 23 1875	0.04 1873	0.37	0.70 1872	0.04 187
, Salida	1 0. 30			0.12	0.20 1075	0.04 10/3	0.17	0.10 1012	10.02 10.
6, Las Animas and Fort Lyon	. 0.14	0.68 1886	(T) 1869	0.23	0.86 1874	0.00 1878	0.45	1.87 1868	0.00 187
64, Kit Carson	2.25	0.79 1886	0.16 1887	0.89 0.20	2.02 1878 0.24 1887	(T) 1880 0.13 1886	4.75 0.48	9.50 1878 0.67 1885	(T) 188 0.28 188
8, Carson City 1	. 0.40	0.19 1000	0.16 1887	0.20	0.24 1007	0.13 1000	0. 10	0.07 1000	0.20 100
South Pueblo	. 0.35	0.57 1884	0.03 1873	0.68	2.30 1875	0.04 1873	0.51	2.05 1875	0.05 188
0, Fort Reynolds 1, Saguache	. 0.70	1. 12 1870	0.27 1869	0.89	1.27 1872	0. 55 1871	0.72	2.32 1872	0.00 187
2. Pandora †	. 0. 25			0.01			0.10		
3, Ulat									
4, Westcliffe	. 0.77		- 		· ••••••••••••••				
		▲ pril	•		Мау.			June.	•
Name and number of station.	Aver- age.	April Maximum.		Aver-	May. Maximum.	Minimum.	Aver- age.	,	Minimum.
Name and number of station.	age.	Maximum.	Mínimum.	age.	Maximum.	Minimum.	age.	Maximum.	Minimum.
7, Fort Collins	age. Ins. 1.59					1		,	Minimum.
7, Fort Collins	age. Ins. 1.59 .0.45	Maximum. Ins. Yrs. 3.94 1884	Minimum. Ins. Yrs. 0.50 1882	age. Ins. 2.86	Maximum.	Minimum.	age. Ins. 1.50	Maximum.	Minimum.
7, Fort Collins ×, Estes Park	age. Ins. 1.59 . 0.45 . 2.23	Maximum. Ins. Yrs.	Minimum.	age. Ins.	Maximum.	Minimum.	ago. Ins.	Maximum.	Minimum.
7, Fort Collins *, Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront	age. Ins. 1.59 . 0.45 . 2.23 . 0.06	Maximum. Ins. Yrs. 3.94 1884	Minimum. Ins. Yrs. 0.50 1882	age. Ins. 2.86	Maximum.	Minimum.	age. Ins. 1. 50 0. 26	Maximum.	Minimum.
7. Fort Collins 4. Estos Park 9. Fort Soulgwick 1. A kront 2. Walden f	age. Ins. 1.59 0.45 2.23 0.06	Maximum. Ins. Yrs. 3.94 1884	Minimum. Ins. Yrs. 0.50 1882	age. Ins. 2.86 2.13 2.55	Maximum.	Minimum.	age. Ins. 1.50 0.26 0.73	Maximum. Ins. Frs. 3.18 1883	Minimum. Ins. Tra 0.80 188
7, Fort Collins *, Estes Park 8, Fort Sedgwick 0, Fort Morgan 1, Akrout 2, Walden f 3, Hot Sulphur Springs	age. Ins. 1.59 . 0.45 . 2.23 . 0.06	Maximum. Ins. Yrs. 3.94 1884 2.25 1870	Minimum. Ins. Yrs. 0.50 1882 2.20 1871	age. Ins. 2.86	Maximum. Ins. Yrs. 4 84 1884	Minimum.	age. <i>Ins.</i> 1.50 0.26 0.78 0.18	Maximum. Ins. Yrs. 3.18 1883 	Minimum. Ins. Frs. 0.80 188
7, Fort Collins 4, Estes Park 9, Fort Sedgwick 1, Akront 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch	age. Ins. 1.59 .0.45 .2.23 .0.06 .0.34 .0.34 .0.34 .0.34 .0.45	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876	age. Ins. 2.86 2.13 2.55 1.50 2.98	Maximum. Ins. Yrs. 4 54 1884 	Minimum.	age. <i>Ins.</i> 1. 50 0. 26 0. 73 0. 18 2. 07	Maximum. Ins. Frs. 3.18 1883 0.35 1875 3.70 1873	Minimum.
7, Fort Collins 4, Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront 2, Walden f 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Deuver	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 0.34 0.34 0.45 0.34 0.34 0.45 0.34 0.34 0.34 0.45 0.34 0.08 0.34 0.08 0.34 0.08 0.34 0.08 0.34 0.08 0.34 0.08 0.08 0.34 0.08 0.34 0.08 0.08 0.34 0.08 0.34 0.08 0.34 0.08 0.08 0.34 0.08 0.0	Maximum. Ins. Yrs. 3.94 1884 2.25 1870	Minimum. Ins. Yrs. 0.50 1882 2.20 1871	age. <i>Ins.</i> 2.86 2.13 2.55 1.50	Maximum. Ins. Yrs. 4 84 1884	Minimum.	age. <i>Ins.</i> 1.50 0.26 0.78 0.18	Maximum. Ins. Yrs. 3.18 1883 	Minimum.
7, Fort Collins , Estes Park 9, Fort Sedgwick 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Deuver 7, Mountain City 8, Hutchinson	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 0.45 0.45 0.45 0.45 0.06 0.45 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.06	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876	age. Ins. 2.86 2.13 2.55 1.50 2.98	Maximum. Ins. Yrs. 4 54 1884 	Minimum.	age. <i>Ins.</i> 1.50 0.26 0.73 0.18 2.07 1.37 0.31	Maximum. Ins. Frs. 3.18 1883 0.35 1875 3.70 1873	Minimum.
7, Fort Collins 4, Estes Park 9, Fort Sedgwick 1, Akront 2, Walden f 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Denver 6, Denver 7, Mountain City 8, Hutchinson 1, Idaho Springs	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 0.45 0.45 0.45 0.06 0.45 0.06	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.31	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870	age. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52	Maximum. Ins. Frs. 3.18 1883 0.35 1875 3.70 1873	Minimum.
7, Fort Collins 4, Estes Park 9, Fort Sedgwick 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Denver 7, Mountain City 8, Hutobinson 9, Idaho Springs 0, Georgetown	age. <i>Ins.</i> 1.59 0.45 2.23 0.06 0.34 2.64 0.45 2.08 0.60 1.60 1.48	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.81 0.68	Maximum. Ins. Yrs. 4 54 1884 	Minimum.	age. <i>Ins.</i> 1.50 0.26 0.73 0.18 2.07 1.37 0.31	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 2.26 0.60 1.60 1.48 0.43 0.45 0.45 0.45 0.45 0.34 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.06 0.45 0.45 0.06 0.45. 0.45 0.55 0.5	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.31	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins. Frs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879	age. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52	Maximum. Ins. Fre. 3.18 1883 	Minimum. Ins. Tro 0.80 188 0.01 185 0.01 185 0.05 185
7, Fort Collins ×, Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Denver 7, Mountain City 8, Hutchinson 9, Idaho Springs 0, Georgetown 1, Montgomery 2, Alma 3, Hugot	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 2.08 0.60 1.60 1.48 5.56 0.43 	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11~ 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.81 0.68 11.73 0.57	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879	age. <i>Ins.</i> 1.50 0.26 0.78 0.18 2.07 1.37 0.31 0.52 0.35 0.73	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Tr. 0.80 188 0.01 185 0.70 185 0.05 185
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.68 11.73	Maximum. Ins. Frs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879	age. <i>Ins.</i> 1.50 0.26 0.78 0.18 2.07 1.37 0.31 0.52 0.33 0.73 	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Tra 0.80 188 0.01 187 0.01 187 0.05 187 0.05 187
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 2.08 0.60 1.60 1.48 5.56 0.43 1.74 1.51	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11~ 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.81 0.68 11.73 0.57	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins.</i> Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879	age. Ins. 1.60 0.26 0.73 0.18 2.07 1.37 0.31 0.52 0.35 0.73 	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7. Fort Collins *. Kstes Park	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.60 1.60 1.48 5.56 0.43 1.74 1.51	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.31 0.68 11.73 0.57 0.15	Maximum. Ins. Frs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887 	Minimum. Ins. Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879	age. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52 0.35 0.73 	Maximum. Ins. Fre. 3.18 1883 0.35 1875 8.70 1873 2.78 1878	<u>Міпітит.</u> <u>Ins.</u> Гг. 0.80 188 0.01 183 0.70 185 0.05 183 0.05 183
7, Fort Collins ×, Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Deuver 7, Mountain City 8, Hutchinson 9, Idaho Springs 1, Montgomery 2, Alma 3, Hugot 4, Ranch near Sanborn 5, Grand Junction 6, Whitewater 7, T. S. Ranch 8, Guanison t	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.64 0.45 2.08 0.60 1.60 1.59 1.69 1.60 1.69 1.74 1.74 1.74 1.74 1.74	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 0.81 0.68 11.73 0.15 0.85 	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 	Minimum. Ins. Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879	ago. Ins. 1.50 0.26 0.78 0.18 2.07 1.37 0.31 0.52 0.35 0.73 0.31 0.53 0.73 	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 0.34 2.45 2.45 0.60 1.60 1.48 5.56 0.43 1.74 1.51 0.990	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.81 0.68 11.73 0.15 0.85 1.60 1.60 1.60	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879	ago. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52 0.35 0.73 0.35 0.73 0.31 0.52 0.35 0.73 0.52 0.35 0.73 0.52 0.35 0.73 0.52 0.35 0.73 0.75	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 2.64 2.08 0.60 1.60 1.59 2.23 0.06 1.60 1.60 1.74 1.59 0.90	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 1.81 0.68 11.73 0.57 0.15 0.85 1.60 1.80 2.88	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 1.17 1887 5.90 1874	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886	ago. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52 0.31 0.73 0.73 0.31 0.52 0.31 0.52 0.31 0.52 0.31 0.52 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.37 0.31 0.52 0.33 0.73 1.37 0.52 0.31 0.52 0.73 1.37 0.52 0.73 1.37 0.52 0.73 1.37 0.52 0.52 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.50 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.73 1.52 0.52	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 2.23 0.06 1.208 0.60 1.60 1.48 5.56 0.43 1.59 0.60 1.60 1.53 0.06 1.55 0.06 1.55 0.06 1.59 0.45 2.23 0.06 1.59 0.45 2.23 0.06 1.59 0.45 2.23 0.06 1.59 0.45 2.23 0.06 1.59 0.45 2.23 0.06 1.59 0.45 2.23 0.06 1.59 0.65 1.59 0.45 2.23 0.06 1.60 1.60 1.59 0.60 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.62 1.59 0.90 1.62 1.59 1.59 1.59 1.62 1.59 1.62 1.59 1.62	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11\ 1887 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879	age. <i>Ins.</i> 2.86 2.13 2.55 1.50 2.98 2.63 1.81 0.68 11.73 0.15 0.85 1.60 1.60 1.60	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879	ago. Ins. 1.50 0.26 0.73 0.18 2.07 1.37 0.31 0.52 0.35 0.73 0.35 0.73 0.31 0.52 0.35 0.73 0.52 0.35 0.73 0.52 0.35 0.73 0.52 0.35 0.73 0.75	Maximum. Ins. Frs. 3.18 1883 	<u>Міпітит.</u> <u>Ins.</u> Гт. 0. 80 182 0. 01 187 0. 70 186 0. 05 187 0. 05 18
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 0.84 2.64 0.45 2.08 0.60 1.60 1.48 5.66 0.43	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 	age. <i>Ins.</i> 2.86 2.13 2.55 2.98 2.63 2.63 1.50 2.98 2.63 1.31 0.57 0.15 0.85 1.60 1.80 2.85 1.60 1.72 1.22	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 1.17 1887 5.90 1874	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886	age. <i>Ins.</i> 1.60 0.26 0.73 0.18 2.07 1.37 0.31 0.35 0.35 0.35 0.35 0.38 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.57 	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 0.84 2.64 0.45 2.08 0.60 1.60 1.48 5.66 0.43	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 0.81 0.81 0.85 0.85 0.85 1.60 2.88 3.76 1.22 0.16	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887 5.90 1874 12.34 1882 1.60 1873	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.12 1886 0.40 1886 1.03 1874	age. <i>Ins.</i> 1. 60 0.26 0.78 0.18 2.07 1.37 0.31 0.35 0.35 0.35 0.35 1.98 1.88 1.81 1.06 0.54	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Tr. 0.80 188 0.01 185 0.70 185 0.05 1
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 2.64 2.08 0.60 1.60 1.59 2.23 0.06 1.60 1.59 2.23 2.64 2.66 1.60	Maximum. Ins. Yrs. 8.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 0.86 1879 0.20 1878 0.43 1884 0.90 1873 0.20 1885	age. <i>Ins.</i> 2.86 2.13 2.55 2.98 2.63 1.50 2.98 2.63 1.31 0.57 0.15 0.57 0.15 0.85 1.60 1.80 0.85 1.60 1.72 0.15 0.85 1.60 1.72 0.85 1.72 0.15 1.72 0.15 1.72 0.15 1.72 0.15 1.72 0.15 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.73 1.73 1.73 1.73 1.73 1.75 1.75 1.60 1.72 1.60 1.60 1.72 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.60 1.72 1.60 1.62 	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 1.17 1887 5.90 1874 12.34 1882 1.60 1873 5.42 1874	Minimum. Ins. Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1868	age. <i>Ins.</i> 1.50 0.26 0.78 0.31 2.39 1.98 1.66 0.54 1.98 1.98 1.50	Maximum. Ins. Frs. 3.18 1883 	Minimum.
7, Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 2.64 2.64 0.45 2.64 0.45 2.64 0.45 2.64 0.45 2.64 0.45 2.64 0.60 1.60 1.60 1.74 1.60 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.88 1.60 1	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 0.81 0.81 0.85 0.85 0.85 1.60 2.88 3.76 1.22 0.16	Maximum. Ins. Yrs. 4.84 1884 5.40 1880 8.57 1876 1.17 1887 5.90 1874 12.34 1882 1.60 1873	Minimum. <i>Ins. Yrs.</i> 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.12 1886 0.40 1886 1.03 1874	age. <i>Ins.</i> 1. 60 0.26 0.78 0.18 2.07 1.37 0.31 0.35 0.35 0.35 0.35 1.98 1.88 1.81 1.06 0.54	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Tr. 0.80 188 0.01 187 0.01 187 0.05 187 0.05 187 0.05 187 0.05 187 0.00 187 0.58 187 000000000000000000000000000000000000
7, Fort Collins , Estes Park 9, Fort Seigwick 0, Fort Seigwick 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Deuver 1, Montgomery 9, Idaho Springs 0, Georgetown 1, Montgomery 2, Alma 3, Hugot 4, Ranch near Sanborn 5, Grand Junction 6, Whitewater 7, T. S. Ranch 8, Gunnison t 4, Hauch dear Sanborn 5, Grand Junction 6, Whitewater 1, Colorado Springs 10, Colorado Springs 10, Colorado Springs 11, Colorado Springs 12, Pike's Peak 13, Seven Lakest 14, Fountain 5, Salida 6, Las Animas and Fort Lyon 6, Kit Carson 7, Montrose 8, Carson City t	age. Ins. 1.59 0.45 2.23 0.06 	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886 0.12 1879 3.14 1886	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 0.86 1879 0.20 1878 0.43 1884 0.90 1873 0.20 1885 (T) 1880 1.21 1887	age. Ins. 2.86 2.13 2.55 2.63 2.63 1.50 2.98 2.63 1.31 0.57 0.15 0.85 1.60 1.80 2.85 1.60 1.80 2.98 0.57 0.15 0.57 0.57 0.55 0	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 1.17 1887 5.90 1874 1.234 1882 1.60 1873 5.42 1874 6.05 1878 0.86 1885	Minimum. Ins. Frs. 0.60 1880 0.50 1887 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1868 (T) 1880 0.07 1885	age. Ins. 1.50 0.26 0.73 0.18 0.73 0.31 2.07 1.37 0.52 0.52 0.52 0.35 0.73 0.52 0.35 0.73 0.52 0.73 0.26 0.78 0.26 0.78 0.26 0.78 0.78 0.26 0.78 0.78 0.78 0.78 0.78 0.52 0.52 0.52 0.52 0.52 0.52 0.78 0.52 0.78 0.52 0.78 0.78 0.52 0.78 0.78 0.52 0.78 0.78 0.52 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.81 0.81 0.98 0.99 0.98 	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Fr. 0.80 188 0.01 187 0.00 187 0.05 187 0.20 187 0.58 187 0.58 187 0.00 187 0.12 187 0.12 187 0.11 188
7, Fort Collins , Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Denver 7, Mountain City 8, Hutchinson 9, Idaho Springs 10, Georgetown 11, Montgomery 22, Alma 3, Hugo t 3, Hugo t 3, Hanch near Sanborn 5, Grand Junction 50, Whitewater 7, T. S. Ranch 36, Gunison t 39, Husted 30, Templeton Gap 31, Colorado Springs 32, Pike's Peak 33, Seven Lakes t 35, Solida 36, Salida 36, Las Animas and Fort Lyon 36, Kit Carson 37, Montrose 30, Sont Fueble	age. Ins. 1.59 0.45 2.23 0.06 2.64 0.45 2.24 0.45 2.08 0.60 1.60 1.60 1.60 1.60 1.74 1.51 0.05 2.23 0.05 1.60 1.60 1.60 1.60 1.60 1.62 2.21 8.77 1.23 0.06 1.62 1.59 1.65 1	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1867 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886 0.12 1879 3.14 1886 3.53 1884	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 2.63 1.81 0.68 11.73 0.15 0.85 1.60 2.88 3.76 1.60 2.88 3.76 1.60 2.88 3.76 1.50 0.15 0.15 0.55 1.50 1.50	Maximum. Ins. Frs. 4.84 1884 	Minimum. <i>Ins.</i> Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1968 (T) 1880 0.07 1885 0.26 1896	age. <i>Ins.</i> 1. 60 0.26 0.78 0.18 2.07 1.37 0.31 2.39 1.98 1.98 1.98 1.98 1.98 1.98 1.98 1.90 52 0.35 0.73 0.73 0.75	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Trs. 0.80 188 0.01 187 0.70 187 0.05 187 0.05 187 0.05 187 0.05 187 0.06 187 0.58 187 0.00 187 0.12 187 0.01 188 0.01 188 0.20 187
7, Fort Collins 5, Estes Park 9, Fort Sedgwick 1, Akront 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 5, McGregor Ranch 6, Denver 1, Montain City 9, Hatchinson 9, Idaho Springs 10, Georgetown 11, Montgomery 22, Alma 3, Blugot 3, Hanch near Sanborn 35, Grand Junction 36, Whitewater 37, T. S. Ranch 36, Guanison t 30, Teompleton Gap 31, Colorado Springs 32, Pike's Peak 33, Soven Lakes t 34, Sovie Lakes t 35, Salida 35, Salida 36, South Carson 37, Montroese 38, Soven City t 39, South Carson 30, South Carson 30, South Carson 31, South Carson 37, Montroese 38, Sovie Carson 39, South Carson 30, South Carson 30, South Carson 31, South Carson 31, Montroese 31, South Carson 30, South Carson 31, Montroese 31, South Carson 31, Montroese 32, South Carson 33, Soven City t 34, South Pueblo 35, Salida 36, South Carson 37, Montroese 36, South Carson 37, Montroese 37, Sanda	age. Ins. 1.59 0.45 2.23 0.06 2.24 0.45 2.23 0.06 1.60 1.60 1.48 5.56 0.43 .2.08 0.60 1.60 1.48 5.56 0.43 .2.08 0.60 1.60 1.48 5.56 0.43 .2.08 0.60 1.60 1.60 1.59 1.59 	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886 0.12 1879 3.14 1886	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 0.86 1879 0.20 1878 0.43 1884 0.90 1873 0.20 1885 (T) 1880 1.21 1887	age. Ins. 2.86 2.13 2.55 2.63 2.63 1.50 2.98 2.63 1.31 0.57 0.15 0.85 1.60 1.80 2.85 1.60 1.80 2.98 0.57 0.15 0.57 0.57 0.55 0	Maximum. Ins. Frs. 4.84 1884 5.40 1860 8.57 1876 1.17 1887 5.90 1874 1.234 1882 1.60 1873 5.42 1874 6.05 1878 0.86 1885	Minimum. Ins. Frs. 0.60 1880 0.50 1887 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1868 (T) 1880 0.07 1885	age. <i>Ins.</i> 1.60 0.26 0.78 0.78 2.07 1.37 0.31 2.39 1.98 1.60 0.54 1.60 1.60 0.54 1.60 1.60 0.54 1.60 0.54 1.60 0.54 1.60 0.54 1.60 0.78 1.60	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Trr 0.80 188 0.01 187 0.70 187 0.70 187 0.05 187 0.05 187 0.05 187 0.05 187 0.05 187 0.05 187 0.01 188 0.00 187 0.12 187 0.01 188 0.01 188 0.00 187 0.01 187 0.05 187 0.01 188 0.01 1
7, Fort Collins , Estes Park 9, Fort Sedgwick 0, Fort Morgan 1, Akront 2, Walden t 3, Hot Sulphur Springs 4, Golden City 4, Golden City 5, McGregor Ranch 6, Denver 1, Montain City 1, Hutchinson 9, Idaho Springs 10, Georgetown 11, Montgomery 2, Alma 3, Hugot 4, Ranch near Sanborn 5, Grand Junction 6, Whitewater 17, T. S. Ranch 3, Grand Springs 3, Gunsison 1, Colorado Springs 3, Seven Lakest 4, Fountain 5, Salida 6, Las Animas and Fort Lyon 16, Kit Carson 7, Montrose 8, Carson City 1 9, South Pueblo 0, Fort Reynolds 1, Saguache 2, Pandora.	age. Ins. 1.59 0.45 2.23 0.06 2.64 2.64 2.64 0.45 2.64 0.45 2.64 0.45 2.64 0.45 2.64 0.60 1.60 1.60 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.69 1.69 1.09 1.69	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886 0.12 1879 3.18 1886 3.53 1884 1.17 1871	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 0.86 1879 0.86 1879 0.86 1879 0.43 1884 0.90 1873 0.20 1885 (T) 1880 1.21 1887 0.00 1878 1.01 1870	age. Ins. 2.86 2.13 2.55 1.50 2.98 2.63 0.57 0.15 0.85 1.60 1.80 2.88 3.76 1.22 0.57 1.22 0.15 0.35 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.60 1.80 2.88 3.76 1.80 1.80 2.88 3.76 1.80 2.80 1.73 1.57 1.60 1.80 2.88 3.76 1.80 2.80 1.73 1.80 2.80 1.75 1.80 2.80 1.60 1.80 2.80 1.73 1.80 2.80 1.75 1.80 2.80 1.75 1.60 1.80 2.80 1.75 1.60 1.80 2.80 1.75 1.60 1.60 1.73 1.60 1.60 1.60 1.73 1.60	Maximum. Ins. Frs. 4.84 1884 	Minimum. <i>Ins.</i> Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1968 (T) 1880 0.07 1885 0.26 1896	age. <i>Ins.</i> 1.50 0.26 0.73 0.26 0.73 0.31 2.39 1.98 1.81 1.06 0.54 2.39 1.98 1.81 1.50 0.52 0.35 0.73 0.31 0.52 0.35 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.35 0.52 0.55	Maximum. Ins. Frs. 3.18 1883 	Minimum. Ins. Trr 0.80 188 0.01 187 0.70 187 0.70 187 0.05 187 0.05 187 0.05 187 0.05 187 0.58 187 0.58 187 0.58 187 0.12 187 0.01 188 0.01 188 0.01 188
Name and number of station. 7. Fort Collins	age. Ins. 1.59 0.45 2.23 0.06 1.60 1.60 1.60 1.48 5.66 0.43 2.04 1.60 1.48 5.62 0.60 1.60 1.51 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.45 2.23 0.06 1.60 1.59 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.60 1.60 0.43 0.43 0.60 1.60 0.43 0.43 0.43 0.60 1.60 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.60 1.60 0.43 0.43 0.43 0.60 1.60 0.90 1.61 0.90 1.61 0.90 1.61 0.90 1.61 0.90 1.60 0.90 1.61 0.90 1.61 0.90 1.60 0.90 1.61 0.90 1.60 0.90 1.60 0.90 1.61 0.90 1.60 0.90 1.00 1.60 0.90 1.60 0.90 1.60 0.90 1.60 0.90 1.00 1.60 0.90 1.00 1.60 0.90 1.10 1.00 1.00 1.00 1.10 1.00	Maximum. Ins. Yrs. 3.94 1884 2.25 1870 5.29 1887 2.80 1870 2.11 1887 2.11 1887 3.55 1874 12.15 1879 3.00 1874 2.64 1886 0.12 1879 3.14 1886 3.53 1884 1.17 1871	Minimum. Ins. Yrs. 0.50 1882 2.20 1871 1.68 1876 0.05 1878 0.86 1879 0.86 1879 0.86 1879 0.86 1879 0.43 1884 0.90 1873 0.20 1885 (T) 1880 1.21 1887 0.00 1878 1.01 1870	age. Ins. 2.86 2.13 2.55 2.63 2.63 2.63 1.50 2.98 2.63 1.60 1.81 0.57 0.15 0.85 1.60 1.80 2.85 1.60 1.80 2.98 0.57 0.15 0.57 0.57 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.57 0.55 1.60 1.80 0.50 1.60 1.80 0.50 1.60 1.80 0.57 0.55 1.60 1.60 1.60 1.80 0.50 1.60 1	Maximum. Ins. Frs. 4.84 1884 	Minimum. <i>Ins.</i> Yrs. 0.60 1880 0.50 1887 0.84 1870 0.20 1879 0.20 1879 0.12 1886 0.40 1886 1.03 1874 0.14 1968 (T) 1880 0.07 1885 0.26 1896	age. <i>Ins.</i> 1.60 0.26 0.78 0.78 2.07 1.37 0.31 2.39 1.98 1.60 0.54 1.60 1.60 0.54 1.60 1.60 0.54 1.60 0.54 1.60 0.54 1.60 0.54 1.60 0.78 1.60	Maximum. Ins. Frs. 3.18 1883 	Minimum.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

† No data.

(T) Trace of rain-fall.

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COLORADO-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			July.					Augus	t.			8	eptemb	er.	
Name and number of station.	Aver- age.	Maxi	mum.	Min	imum.	Aver- age.	Мах	imum.	Mini	mum.	Aver- age.	Max	mum.	Mini	num.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	¥78.	Ins.	Ins.	Yrs.	Ins.	Yrs
37, Fort Collins	2. 55	8.07	1887	1. 30	1883	1.05	2.12	1887	0.25	1884	1.40	2. 51	1882	1.00	188
18, Estes Parkt			••••••	· : · : : •	••••••••			••••••••	·	•••••					
9, Fort Sedgwick	1.21	2.06	1870	0.36	1870	2.00	3.12	1870	0.88	1869	3.00	3.00	1871	· ···	
0, Fort Morgan	0. 52		••••••	· •• •••	•••••	0.60	• • • • • •	••••••		•••••	0.00		•••••		• • • • • •
1, Akron 2. Walden		·····	•••••		••••••	5.35 0.32	•••••	•••••	•••••	••••••	••••••	•••••	•••••	·····	• • • • • •
3, Hot Sulphur Springs	1.60	2.18	1874	1.03	1875	1.49	1.62	1874	1.36	1875	1. 38	1.43	1875	1.34	187
4. Golden City	1.54	3.94	1860	0.80	71 73	1.11	2.12	1887	0.40	1871	1.40	2.92	1873	0.12	187
		3. 94	1900	0.00	11 13	1.11	5.16	1001	0.60	1011	1.40	2.92	1919	0.12	10/
 McGregor Rancht Denver 		4. 32	1875	0.33	1877	1.45	2.25	1878	0.12	1870	1.05	2.89	1875	0.38	187
7. Mountain Cityt	1.08		1919		10//	1.45	2, 20	1010	V. 12	1010	1.00	4.00	1010	0.30	101
8. Hutchinson						2.00	· • • • • • •			•••••	3, 39				• • • • • •
9. Idaho Springs	4 94	· • • • • • •	• • • • • • • •			2.84	· • • • • • •	•••••		•••••	0.23				
0. Georgetown	9.40		•••••	• • • • • •	••••••	1.60	2.21	1887	1.20	1879	1.01		••••••		
I. Montgomeryt	2.00		••••••		•••••	1.00	6. GL	1001	1.20	1019	1.01				
2. Alma			•••••	•••••	•••••	4.97	· · · · · · · ·			•••••	0.32				•••••
8. Hugo						2.00					0.52				
4. Ranch near Sanbornt		••••••	•••••		••••••	2.00					0.55		•••••		
5. Grand Junction		· • • • • • •	• • • • • • • •		••••••	1.55					0.09			• • • • • • •	• • • • • •
6. Whitewatert	1.20	• • • • • • •	•••••		••••••	1. 55				•••••	0.09	• • • • • • •	•••••	•••••	•••••
7. T. S. Ranch	••••					1.83		•••••							
						1. 83		•••••	• • • • • • •	•••••					•••••
8, Gunnisont 9. Husted	2.69	· • • • • • •				3. 52	••••••		•••••	•••••	0.16	•••••	•••••	••••••	•••••
	3.45			• • • • • • •	••••••			•••••	· • • • • • • •	•••••	0. 10		•••••		• • • • • •
0, Templeton Gap	3.45	6.07	1875			1.60	4.42	1887	0.91	1074		8.87		0.88	••••
1, Colorado Springs				0.81	1874			1881	0.91	1874	1.49		1874 1880	0.88	188
2, Pike's Peak		8. 13	1875	0. 41	1884		11. 29	1991	0. 29	1884	1.77	3. 87	1990	0.39	188
3, Seven Lakes.					1874	8.19				1070	0.89		1873		
4. Fonntain		5.65	1872	1.00	18/4	0.60	1.28	1872	0. 06	1873	0.61 0.90	1. 20	19/3	0.02	187
5, Salida	1.01							1000		1070		4.72	1070		
6, Las Animas and Fort Lyon	2.22	6.30	1872	0.14	1874	2.07	4.92	1880	0.23 0.57	1873	1.04	4.72	1870 1877	0.20	188 187
61. Kit Carson	0.92	1. 22	1878	0.62	1879	6.42	9.25	1877		1879	4.20	1.56	1877	0.79	187
7, Montrose		1.34	1887	0. 33	1886	1. 91	2. 23	1885	1. 38	1886	1.05	1.56	199/	0. 53	188
8, Carson Cityt					•••••										
9, South Pueblo	2.14	4.50	1875	0. 39	1886	1.88	4.62	1885	0.48	1873	1.38	3.80	1875 1874	0.00	187 187
0, Fort Reynolds		2.93	1870	0.61	1871	1.31	2.73	1889	0. 30	1871	1.90	2. 76		1.44	
1, Saguache		· • • • • • • •	• • • • • • • •		• • • • • • • • •				• • • • • • • •		0.45	• • • • • • •		. 	
2, Pandora	3.18		••••••					•••••							• • • • • •
3, Ulat		• • • • • • • •	• • • • • • • •		••• ••••			• • • • • • •					•••••	· • • • • • •	• • • • • •
4, Westcliffe	6.63			. 							0.12			. .	

Name and number of		October	• }		Novemb	er.	1	Decemb	e r .		Year.	
station.	Aver- age,	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	A ver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum
	Ins.	Ins. Yrs.	Ins. Yrs.	Ine.	Ine. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Trs.	Ins.	Ins. Yrs.	Ins. Yrs
137, Fort Collins	1.03	2.07 1880	0.43 1883	0.28	1.18 1+86	0.02 1882	0.37	1.33 1883	0.00 1884	17. 26		
138, Estes Parkt	· : · : : ·											
139, Fort Sedgwick	0.40	0.42 1869	0.38 1870	0.03	0.06 1867	0.00 1871	0.67	1.53 1887	0.05 1667	15.44	· • • • • • • • • • • • • • • • • • • •	
40, Fort Morgan	0.19	· • • • • • • • • • • • • • •				· • • • • • • • • • • • • • •	0.44	•••••	•••••			
41, Akron			• • • • • • • • • • •			•••••		••••••	••••••			
42, Waldent 43. Hot Sulphur Sp's	1.08	1.81 1874	C. 36 1875	1.91	2. 57 1875	1. 25 1874	0.88	1.09 1875	0.67 1874	16.62		
144, Golden City	1. 28	2.12 1872	0.00 1874	1.06	2. 82 1886	0.40 1874	0.88	1.00 1875	0.55 1878	18.43		
45, McGregor Rancht	1. 20	a. 14 1014	0.00 1014	1.00	4.02 1000	0. 40 10/4	0. 10	1.00 1000	0.00 10/0	10. 40	····	
46. Denver	0.71	2.15 1877	0.12 1876	0.70	1.50 1878	0.08 1874	0.69	1.70 1876	0. 17'71'74	14.46	20.27 1875	11. 14 187
47. Mountain City	4.00	2 10 1011	0.12 10/0	8.20	1. 50 18/0	0.00 1014	0.00	1. 10 1010	0.11 11 14	. AB. TU	20.21 1010	11.14 10/
48. Hutchinson	0.27			1.90			1.00			19.70		
49. Idaho Springa	0. 64						1.00			10.10		
50. Georgetown	2.34	4.00 1378	0.68 1886	0.85				1.01 1886	0.15 1878	13.82		
51. Montgomery							2.10					
52, Alma	0.46			0.74			0.66					
58. Hago	0.10											
54. Ranch near San-												
bornt					 .							. .
55. Grand Junction .	0.20			5. 50			6. 60					
56. Whitewatert												
57, T. S. Rancht	. .											
58, Gunnisont				!	l. .							 .
59, Husted	0.33	· • • • • • • • • • • • • • • • • • • •		0.25								
60, Templeton Gapt.		· • • • · • • • • • • • •			. . 							
61, Colorado Springa	0. 27	0.35 1887	0.13 1875	0. 87	1.19 1875	0.19 1886	0.20	0. 29 1875	0.08 1887	15.79	20. 10 1872	14.55 188
62, Pike's Peakt	1.41	4. 64 1880	0.15 1883	1.74	7.81 1878	0.07 1883	1.46	4.55 1878	0.22 1874	29. 33	45. 57 1881	9.28 188
63, Soven Lakest	·										. 	· - · · · · · · · · ·
64, Fountain	0.51	1.02 1874	0.50 1873	0.90	2.50 1873	0. 19 1871	0. 18	0.43 1874	0.03 1872	10.97	· • • • • • • • • • • • • • • • • • • •	•••••
165, Salidat		•••••••••	· • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • •		•••••	· • • • • • • • • • • • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •			· • • • • • • • • • • • • • • • • • • •
66, Las Animas and	0.01	0 75 1070	0 00 1050	0.07	A 50 1005	(7) 1000	0.00	1 40 1000	0.00 1868	12.26	16.97 1872	7.67 187
Fort Lyon	0.61	3.75 1870 6.55 1877	0.00 1876 0.03 1878	0.23	0.70 1885	(T) 1882 0.10 1879	0.33	1.68 1883	0.07 1879	31.74	10. 01 1014	1.01 101
661, Kit Carson	3.29 0.90	1. 19 1867	0.03 1878	0.29	1.08 1887	0.50 1879	3.49 0.52	0. 71 1885	0.35 1887	10.10	10.24 1885	9.64 188
68, Carson City		1.18 1001	0.00 1000	0.71	1.00 1001	0. 00 1060	1.10	0. /1 1000	0.00 1001	10.10	1000	a. 01 100
69. South Pueblo	0.34	1.00 1874	(T) 1884	0.23	1.00 1875	0,00 (1)	0.54	0.86 1876	0.11 1878	12.67	15.81 1885	11.72 187
70. Fort Revnolds	0.49	1. 22 1870	0.00 1871	2.57	6.90 1871	0.06 1870	0.36	U. 64 1870	0.07 1869	14.03	15. 23 1871	11. 12 187
71. Saguache	0.50	1. 22 10/0	0.00 10/1	0.45	0. 50 18/1	0.00 10/0	0.00					
72. Pandora	2.56			0.40			0.36					
73, Ulat												
74, Westcliffe				1.22			1.05					
,							1					l

(T) Trace of rain-fall,

COLORADO-Continued.

					anuary			1		Februa					March		
Name and numbe	r o f sta ti	ов.				•	1							1			
			Aver- age.	Maxii	num.	Mini	mum.	Aver- age.	Max	imum.	Min	imum.	Aver age.	<u>м</u>	aximum.	Mini	mum
75, Fort Massachuse	tta		Ins. 0, 34	Ins. 0.80	Yrs. 1857	Ins. 0.00	Yrs. 1855	Ins. 0.86	Ins. 2. 14	Yrs . 1856	Ins. 0.20	Yrs. 1858	Ins. 0.61	In. 14.		Ins. 0.08	F 1
6. Silverton			1.39					. 1.02					1.72				•••••
7, Monte Vista 8. Summit	• • • • • • • • •		0.15	2. 27	1879	0. 70	1878	2.74	3. 33	1877	1.94	1879	0.44 8.68	5. 6	0 1878	1.06	16
9, Trinidad			0.17	0.40	1879	0.01	1880		2. 35	1878	0.14	1880	0. 04	0.0		0.03	51
,																	
, Fort Garland	• • • • • • • • • •	•••••	0. 54	1.50	1875	0 . 03	1861	0, 80	1.30	1875	0, 02	1862	0.73	2.5	0 1875	0.06	- {1
, Hermosa			1.10	1.99	1880	0.36	1877	1.44	2.50	1878	0.81	1881	0. 68	1.0	0 1881	0.45	(1
. Durango			0.46			·····				1000				• • • • •	•••••		
, Fort Lewis			1.38	3.91	1886	(T)	1885	1. 52	3. 80	1880	0.44	1885	1. 26	4.2	4 1884	0.40	1
					April.					May.					June.		
Name and number	r of statio	on.	Aver- age.	Maxir	num.	Minii	num.	Aver- age.	Max	imum.	Min	imum.	Aver age.	м	aximum.	Min	imun
, Fort Massachuse	tts		Ins. 1. 15	Ins. 2.11	<i>Trs.</i> 1858	Ine. 0. 39	Yrs . 1853		Ins. 3.93	<i>Yrs.</i> 1854	Ins. 0,00	Y 78. 1856	Ins. 0.71	In. 1.1		Ine. 0.24	Ĩ
Silverton Monte Vista			0.40 1.00		•••••	•••••		. 0.47	•••••	••••••		••••••	0. 36		•••••		••••
, Summit			4.81	5. 81	1877	3. 50	1879		4.15	1877	0. 38	1879	1. 19	2.9		0.00	1
Trinidad			1.03	2.93	1879 1879	0.04 0.00	1880 1878		2.54 2.23	187 9 1875	2.32	1878 1860	5.40 1.28	12.8		0.44	1
, Hermosa			0.58	1.56	1877	0.13	1876		1.90	1877	0.00	1879	0.58	1.3		0.06	3
2, Durangot 3, Fort Lewis			1.28	2.74	1883	0. 10	1290	0. 80	1.97	1883	0.20	1881	0.90	2.0	0 1882	0.00	1
				<u></u>	July.					Augus	t.				Septem	per.	
Name and numbe	r of stati	on.	Aver.					Aver					Aver				
			age.	Maxii	num.		mum.	age.	Max	imum.	Min	imum.	age.	M	aximum.	Min	mur
5, Fort Massachuse			Ins. 2.01	Ins. 3.04	Yrs. 1853	Ins. 0, 72	Yrs 1857		Ins. 3.98	Yrs. 1857	Ins. 1.48	Yrs. 1853	<i>Ins.</i> 1. 80	In. 3.3		Ins. 1.25	1
3, Silverton 7, Monte Vista	•••••	•••••	1.34 2.06			•••••	•••••	1.41		••••••		••••	0.94	• ••••	•••••	• • • • • • • •	••••
, Summit		• • • • • • •	3.11	3.60	1877	2.70	187	2.87	5.10	1878	1.64	1880	2.17	8.7	0 1877	0.76	••••
), Trinidad), Fort Garland			8.24 2.48	4.40 2.61	1880 1860	2.61 0.07	1879 1863		5.48 8.40	1878 1883	2.40	1877 1877	1.27	2.2		0.01	1
Hermosa			1.79	3. 53	1880	0.30	1882		5.57	1881	1. 12	1875	1.35			0.03	
, Durangot , Fort Lewis			2.17	7.54	1887	(T)	1886	2.83	3. 99	1886	0. 91	1883	4.20	2.0	2 1887	0.65	••••
		Octo	ober.			Not	rembe	г.		D	ecemb	Э г.			Тө		
ame and number of station.	Aver age.	faxim	um. M	inimum.	Aver-	Maxin	num.	Minimu	n. Av		imum.	Minimu	m. M	lean.	Maximu	n. Mi	nim
	Ins.	Ins. Y		us. Yrs.	Ins.	Ins.	Vea	Ins. Tr	. In		V	Ins. Y		Ins.	Ins. Vi		
, Fort Massachu						1			1		. Y78.						, J
setts 5, Silverton	0.87 1	1.84 18	52 0.	00 1855	3. 61 1. 86	6.34	1852	0.79 185	6 1. . 1.		0 1854	0.38 18		7. 23	18,81 18	35 13.	87
7, Monte Vista	0.72	• • • • • • • • •			0.28								• • • • •	••••• ••••			••••
8, Summit	2.85 4	4.4018 3.2018	77 0.	33 1878 36 1878	1.82	2.30 3.89	1878 1878	0.90 187 0.14 187		2 2.5	8 1878 3 1878	1.00 18 0.03 18		0. 67 1. 78	33. 84 18	78 15.	78
Trinidad		U. U. U		AA TO10							1010				40 04 10	10 10	
9, Trinidad 0, Fort Garland	0.51	1. 16 18	181 0.	00 1875	0.62	1.02	1919	0.06 186	1 0.1		1 1868	0.10 18		2. 85	42.84 18	72 5.	-
9, Trinidad 0, Fort Garland 1, Hermosa 2, Durango	0.51	1. 16 18 2. 10 18		00 1875 02 1875	0.62	1.02		0. 14 187			1 1868 8 1879	0. 10 18 0. 03 18		2. 85 4. 66	15.84 18		44 28

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

1 No data.

(T) Trace of rain-fall.

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BAIN-FALL OF THE PACIFIC COAST AND

NEW MEXICO TERRITORY.

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			T .	T	121			Record	•	
No.	Name of station.	County.	Lat. itude.	Lon- gitude.	Eleva- tion.	Len	gth.	From—	To (inclu- sive)—	Remarks as to observers and miss- ing records.
484	Fort Lowell	Таов	° ' 36 32	o / 106 56	Feet.	Tre.	<u>М</u> . 6	Oct., 1868	June, 1874	U. S. post hospital. Record broker Jan. to Sept., 1868, inclusive ; Jan and May to Dec., 1869, inclusive
48	Camp Burgwin	do Colfax. † Rio Arriba. †	36 30	105 40	7, 900	5	9	Sept., 1854	May, 1860	July to Dec., 1874, inclusive. U. S. post hospital. Record broker Jan. to Aug., 1854, inclusive; Jun to Dec., 1860.
486	Fort Union	Mora	35 54		6, 750	29	1	Sept , 1851	Oct., 1887	U. S. post hospital. Record muc broken. Jan. to Aug., 1851, in clusive: Oct. and Nov., 1861; Ap to Dec., 1863; Inclusive; Jan., Feb Aug, to Dec., 1867, inclusive; Jan to May, inclusive, Nov. and Dec 1869; Jan. to Apr., inclusive, Jun Aug., and Dec., 1869; Mar., 1871 Sept., 1872; Jan. and May, 1873 Oct., Nov., and Dec., 1876; Oct 1877; Feb., Apr., and July, 1873 Apr., 1879; Jan. and Feb., 1884 Feb., Mar., and Nov., 1882; Fel and Mar., 1883; Oct. and Dec 1884; Feb. and Mar., Nov. an Dec., 1887; years 1864, 1865, an
487	Las Vegas	San Mignel	35 35	105 13	6, 418	1	10	Apr., 1850	Jan., 1876	1866. Abner Woodworth and U. S. po hospital. Record much broken Jan., Feb., Mar., May to Aug 1850, inclusive; Jan., Aug. to Dec 1851, inclusive, Jan. and Feb
488	Fort Bascom	do	35 23	103 27	4, 000	2	3	Dec., 1864	Oct., 1870	1875; Feb. to Dec., 1876. inclusiv. U. S. post hospital. Record muc broken. Jan. to Nov., 1864, inclu- sive; Jan., Feb., Apr., May, Jum- Oct., and Dec., 1865; Apr. to Dec 1866, inclusive; years 1867 and 1864 Jan., Feb., and Oct., 1869; Mar Nov., and Dec., 1870.
489	Gallinas Springs	do	35 14	104 48	·••••••	1	10	Mar., 1885	Dec., 1886	James E. Whitmore. Jan. and Feb
190	Puerto de Luna	do	34 45	104 42		. 2	6	Mar., 1884	Sept., 1886	1885. F. Meredith Jones. Record broket Jan. and Feb., 1884; July an Oct. to Dec., 1886, inclusive,
491		do		1 04 09		4	8	Мау, 1864	Jaly, 1869	U. S. post hospital. Record much broken. Jan. to Apr., 1864, inclu- sive; May to Aug., 1866, inclu- sive; Jan., Mar., and Dec., 1867 Aug. to Dec., 1869, inclusive.
192		Bernalillo		107 20	6, 200	2 i	1	Dec., 1849	Dec., 1851	U. S. post hospital. Jan. to Nov 1849, inclusive.
493		do		106 40	5, 032				΄ Δug., 1879	Signal Service and U. S. post ho pital. Record much broker Jan., 1850; Aug. to Dec., 1851, in clusive; Jan., Feb., and Mar., 185 June to Oct., inclusive, and Dec 1855; Feb., Mar., and Apr., 1864 May, 1865; Mar. to Aug., inch sive, and Dec., 1866; Mar., May June, Aug. to Dec., 1867, inch sive; Jan. to Sept., 1878, inch sive; June to Dec., 1879, inch sive; years 1861, 1862, 1863, 1868 t 1878, inclusive.
4 94	Santa Fé	Santa F6	35 41	105 56	7,026	30	10	Feb., 1850	Dec., 1887	Signal Service and U. S. post ho pital. Record broken. Jan., May June, Aug. to Dec., 1850, incli sive; all months, 1851; Jan. d Aug., 1852, inclusive; Apr. an May, 1861; all months, 1862; Feb Apr., Aug., 1864; Jan. and Ma; to Dec., 1866, inclusive; Jan. t Aug., inclusive, Oct. to Dec., 1870; inclusive; Oct., Dec., 1871; Dec 1881; June to Dec., 1883, inclusive
493	Fort Wingate	Valencia	35 28	108 32	6, 822	21	6	Dec., 1864	Oct., 1887	Jan. to Nov., 1884, inclusive. U. S. poest hespital. Record muc broken. Jan. to Nov., 1864, incl: sive; June, 1865; Mar., May, Jun- July, Aug., Nov., 1866; Jan. 1 Apr., inclusive, and Aug., 1864 Jan. and Apr., 1884; Feb., Mar Apr., 1885.

† No data,



NEW MEXICO TERRITORY-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

		-		-					Recor			
No.	Name of station.	County.		de.	Lon- gitude	Eleva tion.		gth.	From-	1	o (incl sive)—	ing records
496	Los Pinos	Valencia	•	50	° 4 106 4	I Feet.	Yrs 0	. <u>М</u> . 11	Jan., 18	55 M	ay, 18	Feb., July, Aug., Oct., 1865; Mar.,
497	Socorro	Socotto	34	08	106 5	5 4, 560	2	10	Nov., 18	19 M	ay, 18	pital. Record broken. Jan. to Oct., 1849, inclusive; Jan., 1852, to Dec., 1879; Mar. and Sept. to Dec., 1851, inclusive; June to Sept., 1860, inclusive; June to Dec., 1881,
498	Fort Tulerosa	do	33	57	108 1	5	. 1	5	May, 187	3 0	t., 18	Jan. to Apr., 1873, inclusive; May,
49 9	Fort Conrad	do	33	47	106 4	8 4, 576	3	9	Oct., 18	51 Ju	ne, 18	Jan. to Sept., 1851, inclusive; July
500	Fort Craig	do	33	38	107 0	1 4, 570	21	3	ี่ Jan., 185	55 De	ec., 18	to Dec., 1855, inclusive. Signal Service and U. S. post hos- pital. June and July, 1860; July, Aug., Dec., 1862 (all menthe, 1863 and 1864); Jan., Mar., June, Oct., 1865, June, July, Aug., Dec., 1866; May to Aug., 1867, inclusive; Feb. to July, 1871, inclusive; Jan., July, Ang., Sept., 1872; July to Dec., 1879, inclusive (years 1880, 1881, 1882, 1883).
501 502		do do			306 0 107 0		. 8 5	0 9	Jan., 186 Apr., 186		w., 18 n., 18	77 Signal Service. 76 U. S. post hospital. Record much broken. Jan., Feb., Mar., July to Dec., 1864, inclusive; Jan., Feb., Mar., June, July, Aug., 1665; Feb., Mar., May to Dec., 1865, inclusive; Feb., Mar., May, 1870; Jan., Apr. to Nov., 1871, inclusive; Jan., Feb., Mar., June to Nov., 1872, inclu- sive; Jan. and May, 1873; June to Sept., 1875, inclusive Feb. to
503	Fort Stanton	Lincoln	33	29	105 3	1 6, 150	12	8	Jan., 185	6 De	sc., 18	 Dec., 1876, inclusive. Signal Service and U. S. post hospital. Jan. to Aug., inclusive; Oct., Nov., Dec., 1866; Jan. to Aug., inclusive, Oct., 1868; Jan., 8ept., 1869; Feb., Oct., Nov., 1871; Nov., Dec., 1872; May, 1886.
504 503		Dona Ana			107 16 106 5			11 3	Jan. , 185 Nov., 186		c., 184 t., 184	17 U. S. post hospital. Record broken. Jan. to Oct., inclusive, Dec., 1865; Feb., Mar. to July, inclusive, Oct., 1806; years 1878 to 1885, inclusive; June, 1867; Mar. to Dec., 1877, in- clusive; Apr., July, 1886; Nov.,
506	La Mesilla	do	32	17	106 4	8 ' 	. 5	0	Aug., 187	7 Ju	ly, 189	Jan. to July, 1877, inclusive; Aug.
507	Fort Fillmore	do	32	13	106 4	2 3, 937	8	3	Sept., 185	il De	., 18	 to Dec., 1882. U. S. post hospital. Record broken. Jan. to Aug., 1851, inclusive; Jan., 1852.
508 500	Fort Webster Fort Bayard	Grantdo	32 32		108 0- 108 0:			11 5	Feb., 185 Mar., 180	52 De 57 Oc	e., 18 t., 18	3 U.S. post hospital. Jan., 1852.
510	Silver City	do	3 2	41	108 1	8	. 4	11	May, 187	'8 М	ar., 18	
51:	Fort Cummings	do	82	27	107 4	0	. 4	4	Mar., 186	19 	ly, 18	
512	Lordsburg	do	32	20	108 4	0	. 5	2	July, 186	2 No	ov., 18	37 Central Pacific R. R. Record broken. Jan. to June, 1892, inclu- sive; June, Oct., Nov., 1883; June,
513	Deming	do	32	18	107 4	8	. 4	4	Dec., 188	52 No	o v., 1 8	1885; Jan., Dec., 1887.

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NEW MEXICO TERRITORY-Continued.

January. February. March.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

Name and number of station.	Λ ver- ago.	Max	imum.	Min	imum.	Aver- age.	Maxi	mum.	Min	imum.	Aver- age.	Maxi	mum.	Mini	mum.
· ·	Ins.	Ins.	Yrs.	Ins.	Γ τε.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.
484. Fort Lowell	0.71		1874	0.00	1873	0.96	1.70	1869	0.12	1872	0.76	1.55	1869	0.10	1872
485, Camp Burgwin	0.72	1.50	1857	0.08	1856	0.47	1.35	1759	0.05	1855	0.51	1.43	1860	0.12	1857
486, Fort Union		1.29	1881	0.00	1855	0.45	2. 70	1877	0.00	()	0.46	2. 52	1875	0.00	<u>(</u>)
487, Las Vegas	0.40					4.23					0.98	1.95	1875	0.01	1851
488, Fort Bascom	0.13	0.25	1870	0.00	1866	0.00					0.09	0.25	1869	0.00	1866
489, Gallinas Springs	1.05					1.50					1.00	1.00	'85 '86		1000
490, Puerto de Luna	0.98	1.04	1886	0.92	1885	1.94	3.18	1885	0.71	1886	0.53	0.81	1886	0.05	1884
491, Fort Sumner		0.52	1869	0.00	1868	0.35	1.32	1855	0.00	'67 '68	0.97	2. 20	1868	0,45	1865
492, Cebolleta.		0.45	1850	0.15	1851	1. 61	2.11	1851	1.10	1850	0.36	0.63	1850	0.10	1851
493, Albuquerquo		1.45	1857	0.00	(1)	0.22	0.56	1851	0.00	(1)	0.26	1.02	1855	0.00	'57 '60
494, Santa Fé	0.52	1.49	1871	0.00	'53 '58	0.89	5.20	1865	0.06	1882	0.66	2, 59	1856	0.00	1863
495, Fort Wingate	1.12	3.30	'69'72	0.10	1870	1.59	11.25	1873	0.00	1866	0.94	4.95	1881	0.00	1873
496, Los Pinos				1		0.00					0.00				
497, Socorro	0.20	0.55	1881	0. 02	1851	0.25	0.52	1850	0.01	1881	0.34	0.60	1850	0.07	1881
498. Fort Tulerosa						4.94					1.38				
499, Fort Conrad		0.23	1853	0.00	'54 '55	0.11	0.39	1853	0.00	1854	0.14	0.38	1853	0.00	1852
500, Fort Craig		1.35	1861	0.00	()	0.40	2.43	1877	0.00	(1)	0.32	1.50	1858	0.00	<u>()</u>
501. Lava	0.14	0.28	1885	(T)	1887	0.34	0.46	1887	0.17	18×5	0.36	1.02	1885	(T)	1887
502, Fort McRae	0.16	0.40	1869	0,00	'65 '70	0.18	0.67	1869	0.00	1871	0.36	0.70	1869	ò. óo	187
503, Fort Stanton		1.68	1871	0.00	1870	0.77	8.35	1860	0.00	1870	1.11	4.28	1871	0.08	186
504, Fort Thorn	0.48	1.30	1858	0.00	'54 '57	0.86	2.51	1857	0.00	'54 '58	0.58	1.03	1856	0.04	1850
505, Fort Selden	0.24	0.97	1876	0.00	()	0.57	4.46	1877	0.00	()	0.15	0.81	1866	0.00	(*)
506. La Mesilla	0.42	1.20	1879	0.04	1881	0.57	1.36	1882	(T)	1881	0.41	0.69	1878	0.14	1881
507, Fort Fillmore	0.05	0.30	1857	0.00	(2)	0.42	1.85	1856	0.00	(4)	0.17	0.65	1854	0.00	'57 '50
508, Fort Webster	0.40	1				1.00	1.51	1852	0.50	1853	0.07	0.13	1852	0.00	1853
509, Fort Bayard		1.79	1874	0.03	1878	1.39	5.68	1874	0.05	1871	0.57	1.72	1874	0.00	188
510, Silver City		2.78	1879	0.02	1881	1.08	2.06	1882	0.63	1883	0.90	1.57	1883	0.32	187
511, Fort Cummings		2.00	1873	0.00	1870	0.26	0.62	1873	0.00	1872	0.40	1.38	1869	0.00	187
512, Lordsburg		0.80	1884	0.00	1885	0.23	0.37	1883	0.12	1887	1.22	4.00	1885	0.00	0
513. Deming		0.81	1884	0.00	1887	0.60	0.70	1884	0.50	1886	0, 25	0.54	1885	0.00	1887

			April.					May.					June.		
Name and number of station.	Aver- age.	Max	imum.	Min	imum.	Aver- age.	Мах	imum.	Min	imum.	Aver age.	Maxi	mum.	Min	imum.
484, Fort Lowell	$\begin{array}{c} 1.55\\ 1.35\\ 0.22\\ 0.36\\ 0.75\\ 0.30\\ 0.72\\ 0.86\\ 0.00\\ 0.28\\ 0.34\\ 0.04\\ 0.20\\ 0.17\\ 0.59\\ 0.68\\ 0.10\\ 0.12\\ 0.15\\ 0.13\\ 2.23\\ 0.39\\ 0.22\\ 0.25\\ \end{array}$	$\begin{array}{c} \textbf{1}_{148}.\\ \textbf{2}_{.000}\\ \textbf{3}_{.22}\\ \textbf{2}_{.24}\\ \textbf{3}_{.22}\\ \textbf{2}_{.11}\\ \textbf{1}_{.70}\\ \textbf{1}_{.70}\\ \textbf{3}_{.90}\\ \textbf{0}_{.990}\\ \textbf{0}_{.990}\\ \textbf{0}_{.990}\\ \textbf{0}_{.990}\\ \textbf{0}_{.990}\\ \textbf{0}_{.990}\\ \textbf{0}_{.44}\\ \textbf{1}_{.52}\\ \textbf{2}_{.75}\\ \textbf{0}_{.60}\\ \textbf{0}_{.62}\\ \textbf{0}_{.62}\\ \textbf{0}_{.20}\\ 0$	Y78. 1869 1869 1869 1886 1860 1860 1860 1865 1855 1855 1855 1855 1855 1877 1855 1877 1855 1877 1876	Ins. 0.00 0.05 0.00 0.22 1.40 0.07 0.07 0.03 0.03 0.04 0.05 0.07 0.08 0.09 0.00 0.01 0.02 0.03 0.04 0.05	Fre. 1873 1873 1873 1855 1855 1855 1855 1855 1856 1870 1884 1870 1885 1874 1880 1874 1880 1874 1876 1872 1872 1872 1876 1872 1877 1885 1877 1886 1874 1875 1874 1875 1874 1875 1874 1875	Ins. 0.02 0.25 1.12 2.06 1.46 1.54 1.54 1.54 1.05 0.21 0.81 0.53 0.25 0.33 0.25 0.33 0.24 0.26 0.41 1.08 0.26 0.26 0.48 0.26 0.25 0.24 0.26 0.25 0.24 0.26 0.25 0.24 0.26 0.25 0.24 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	Ins. 0.074 5.962 1.72 1.77 2.51 0.231 1.19 2.31 3.0 0.620 2.31 0.55 0.00 0.822 2.033 0.825 0.00 1.18 1.75 0.82 5.00 0.82 5.00 0.82 5.00 0.82 5.00 0.82 5.00 0.82 5.00 0.82 1.18 1.75 0.82 0.90 0.82 1.37 1.00 0.40 0.77	Yre. 1874 1875 1851 1869 1885 1869 1854 1881 1854 1881 1854 1875 1875 1885 1866 1854 1866 1854 1866 1854 1866 1854 1867 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855 1865 1855	Ins. 0.00 0.01 0.02 0.02 0.03 1.30 1.30 1.30 0.00 0.38 0.01 0.00 0.01 0.01 0.01 0.00 0.01 0.02 0.03 0.04 0.05 0.05	Trs. '71 '73 1860 (4) 1870 1886 1865 1865 1851 (1) '59 '60 (1) 1831 1835 (1) 1836 1855 (1) 1836 (1) '59 '60 (1) 1886 (1) '59 '60 (1) 1886 (1) '59 '60 (1) 1886 (1) '59 '60 (1) 1886 (1) 1886 (1) (1) 1886 (1) (2) (1) 1886 (1) (2) (2) (2) (2) (2) (2) (2) (2	$\begin{array}{c} \textbf{Ins.}\\ \textbf{0.17}\\ \textbf{0.36}\\ \textbf{2.11}\\ \textbf{0.42}\\ \textbf{2.24}\\ \textbf{3.36}\\ \textbf{1.95}\\ \textbf{0.14}\\ \textbf{1.22}\\ \textbf{0.14}\\ \textbf{1.225}\\ \textbf{0.14}\\ \textbf{1.225}\\ \textbf{0.00}\\ \textbf{0.03}\\ \textbf{0.78}\\ \textbf{0.63}\\ \textbf{1.34}\\ \textbf{0.21}\\ \textbf{1.844}\\ \textbf{0.21}\\ \textbf{1.844}\\ \textbf{0.247}\\ \textbf{0.444}\\ \textbf{0.447}\\ \textbf{0.447}\\ \textbf{0.444}\\ \textbf{0.469}\\ \textbf{0.669}\\ \textbf{1.72}\\ \textbf{0.669}\\ \textbf{1.72}\\ \textbf{0.699}\\ \textbf{1.72}\\ \textbf{0.298} \end{array}$	Ins. 0.40 0.89 7.05 5.04 8.388 8.25 9.259 8.259 8.259 8.259 8.259 8.259 8.259 8.259 8.259 8.259 8.259 8.259 9.215 9.215 9.215 9.215 9.215 9.215 9.2174 1.022 1.74 8.379 9.215 9.2174 1.022 1.74 8.379 9.215	Frs. 1871 1538 1852 1865 1866 1886 1886 1886 1886 1886 1886 1864 1852 1861 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1873 1875 1869 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1878 1869 1878 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869 1869	Inc. 0.00 0.02 0.11 0.00 0.02 0.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02	Fre. '73 '74 1853 1851 1853 1851 1851 1851 (') 1865 1867 1851 (') 1868 (') 1874 1854 1874 1854 1874 1874 1874 1874 1874 1874 1874 1875 1868 (') 1872 1874 1872 1872 1872 1973 1974 1975 1

(1) Frequently.

(²) Generally.

(T) Trace of rain-fall. .

NEW MEXICO TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			1	•	July.			1		Augus	: .				Septembe	er.	
Name and number	of stat	ion.	A ve age		um.	Minim	um.	Aver- age.	Max	imum.	Mini	ມາເຫ .	Aver age.		ximum.	Min	imu m.
			In	. Ins.	Yrs.	Ins.	Yra.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins		Ins.	Гrя.
184, Fort Lowell 185, Camp Burgwin	•• •••	•••••	1.9	6 3.94	1872	0.08	1873	3.07	3.81	1872	2.04	1870	1.42	3.06		0.00	1870
185, Camp Burgwin	· · · · · · ·	••••••		5 1.85 1 .17.30	1859 1861 I	0.13 0.30	1857 1869	1.71	2.87 14.80	1859 1861	0.21	1857 1879	1.01 2.12	1.93		0.40	1856 '62 '69
186, Fort Union 187, Las Vegas 188, Fort Bascom 189, Gallinas Springs . 190, Puerto de Luna			. 4.2	0 6.90	1875	5.10	1851	2.65	14.00	1001	0.40	1019	4.02			0.00	1850
183 Fort Bascom			2.9	9 4.41	1865	2. 20	1869	1.80	2.93	1870	1.10	1865	0.27	0.79		0.00	1869
89. Gallinas Springs .			. 2.1	1 2.57	1886	1.65	1885	3.82	5.12	1886	2.51	1885	3, 89	7.78	3 1886	(T)	188
90, Puerto de Luna			1. 3	8 2.10	1884	0.65	1885	4.67	5.63	1884	2.81	1885	2.19			1.29	188
91, Fort Sumner			. 3.1	8 10.63	1865	0.80	1867	2.37	4.37	1865	0 50	1867	1.47	3.15		0.35	185
92, Cebolleta	••••	• • • • • • •	0.5	5 0.85	1850	0.25	1851	1.22	2.18	1851	0.26	1850	3.60			1.37	185
93, Albuquerque	• • • • • • •	••••••	0.9	9 3.60	1858	0.07	1852	1.80	4.90	1858	0.21	1879	0.83			0.00	'58'6
05 Fort Wingete	•••••		2.1	2 7.45	1853 1867	0.44 0.26	1857 1873	2. 51	5,90	1855 1878	0.49	1860 1879	1.67 1.28 1.28			0.00	186 186
of Los Pince				6 7.60	1001	0.20	1010	2.01	5. 50	1010	0.25	1018	0.00		10/0	0.00	100
97 Socorro			0.8	4 1.29	1850	0.40	1851	1.30	2.07	1851	0,54	1850	0. 24			•••••	
98. Fort Tulerosa			. 3.6	5 6.00	1874	1.30	1873		10.48	1873	6.42	1874	1.20		8 1873	0.64	187
99. Fort Conrad			. 1.2	8 2.78	1853	0.41	1854	1.18	1.32	1852	1.02	1854	1.25		3 1854	0.53	185
90, Puerto de Luna. 91, Fort Summer			. 2.6	9 7.43	1859 ;	0 . 10	1873	. 3. 03	11.87	1859	0.57	1855	1.91	, 6. 32	2 1856	0.00	186
01, Lava 02, Fort McRae 03, Fort Stanton 04, Fort Thorn	•••••		. 1.8	6 2. 27	1885	1.27	1887	2.35	3.32	1886	1.78	1885	2.62			0.06	188
02, Fort McRae	••••		1.3	6 4.11	1870	0.05	1873	3.45	3.98	1869	2.50	1873	1.59	3.90	0 1874	0.00	186
03, Fort Stanton	•••••	••••	3.4	3 5.80	1871	1.35	1885	4.67	9.24	1857	1.13	1871	2.58		1857	0.74	185
04, Fort Thorn	•••••	• •••••	2.6	5 4.70 6 5.20	1857 1870	0.17	1856 1873	3.79 1.85	6.01 5.09	1854 1869	$1.21 \\ 0.50$	1855 1875	4.23 1.54			0.20	185 186
05, FOR Selden	•••••	• • • • • • •	. 1.0	0 5.20 1 3.90	1881	0. 20 1. 32	1882	1.16	3, 13	1881	0.01	1877	0.86			0.14	187
45, Fort Selden 45, Fort Selden 66, La Mesilla 67, Fort Fillmore 68, Fort Webster 69, Fort Bayard 60, Fort Bayard			1 8	9 3.84	1852	0.43	1857	1.80	3.65	1857	0.57	1855	1.53	2. 61		0.00	185
08 Fort Webster	••••••		3 6	7 4.79	1852	2. 55	1853	2.75	4. 29	1852	1.21	1853	2.36			1.26	185
09. Fort Bayard			. 2.8	3 7.22	1875	0.09	1871	3. 27	11.73	1873	0.19	1871	2.15	5.90		0. 03	186
10. Silver City			8. 9	6 9.62	1881	1.87	1879	5.95	8.69	` 1881	3.51	1880	2. 24	3,89	9 1881	0.27	187
11, Fort Cummings			3, 0	5 6, 50	1870	1.07	1869	4.83	8.99	1870	1.83	1871	1. 11	2.8	3 1871	0.31	187
10, Silver City 11, Fort Cummings 12, Lordsburg 13, Deming	• • • • • • • •		. 1.6	6 8.17	1887	0.75	1885	2.09	3.45	1883	0.35	1885	0, 83			0, 00	1883
513, Deming	•••••	• • • • • • • •	1.6	0 2.96	1883	0. 52	1884	2. 18	4.19	1886	0.81	1885	1.83	4.36	5 1886	0.09	1883
Name and number		0	ctober	·.		Nov	omber	r.		I	ecemb	e r.			Yea	r. 	
of station.	Aver- age.	Maxir	num ¦	Minimum.	A ver age.	Maxim	1um. d	Minimu		ge. Ma	timum.	Minim	um.]	Mean.	Maximu	m. M	inimum.
	1	,			Ins.	Ins.]		Ine. Yr		ns. In		Ins. 1		-	Ine. Yr		Ins. Yrs
84 Fort Lowell	Ins.	Ins. 0 40	1872	Ins. Yrs.		1.82.1). 60'70'	72 1.	17 2 9	0 1888	0 35 1		Ins. 11 40	13 58 18	79 5	1 19 197
84. Fort Lowell 85. Camp Burgwin	0.08	0.40	1872	0.00 (1)	0.67	1.82 1		0.00'70' 0.58 18		17 2.2 55 0.8	6 1857		871 🕌	11.49	13.58 18	72 7 59 2	.42 187 .86 185
85, Camp Burgwin		0.40 1.25	1872 1857	0.00 (*) 0.00 1855	0.67 0.97	1.97 1	1857 ¦ 0	0.00'70' 0.58 18 0.00 (¹	58 0.	55 0.8	6 1857	0.06 1	871 854	11.49 8.65	13.58 18 12.70 18	59 ja	1.86 185
85, Camp Burgwin 86, Fort Union	0.08 0.44 0.89	0.40 1.25 5.40	1872 1857	0.00 (1)	0.67		1857 0 1878 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	58 0.) 0. 50 1.	55 0.8 42 1.4 66 3.1	6 1857 2 '58 '83	0.06 1	871 854 1)	11.49	13.58 18	59 ja	1.86 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom	0.08 0.44 0.89 0.00 1.89	0.40 1.25 5.40 0.00	1872 1857 1865	0.00 (²) 0.00 1855 0.00 (¹) 0.00	0.67 0.97 0.77 0.38 0.75	1.97 1 3.90 1 0.65 1 1.50 1	1857 0 1878 0 1875 0 1869 0	0.58 18 0.00 (¹ 0.12 18 0.00 18	58 0.) 0. 50 1. 65 0.	55 0.8 42 1.4 66 3.1 50 1.0	6 1857 2'58'83 2 1850 0 1669	0.06 1 0.00 (0.20 1 0.00 1	871 854 ¹) 875 864	11.49 8.65 18.51 23.46 13.73	13.58 18 12.70 18	59 ja	1.86 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs	0.08 0.44 0.89 0.00 1.89 0.80	0.40 1.25 5.40 0.00 1.26	1872 1857 1865 1886	0.00 (²) 0.00 1855 0.00 (¹) 0.00 0.35 1885	0.67 0.97 0.77 0.38 0.75 0.18	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1	1857 0 1878 0 1875 0 1869 0 1869 0	0.58 18 0.00 (¹ 0.12 18 0.00 18 0.10 18	58 0.) 0. 50 1. 65 0. 86 0.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0	6 1857 2'58'85 2 1850 0 1869 0 1885	0.06 1 0.00 (0.20 1 0.00 1 0.25 1	871 854 1) 875 864 886	11.49 8.65 18.51 23.46 13.73 21.22	13.58 18 12.70 18	59 ja	1.86 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna	0.08 0.44 0.89 0.00 1.89 0.80 0.80 0.68	0.40 1.25 5.40 0.00 1.26 1.04	1872 1857 1865 1886 1884	0.00 (²) 0.00 1%55 0.00 (¹) 0.00 0.35 1885 0.33 18*5	0.67 0.97 0.77 0.38 0.75 0.18 0.07	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1	1857 0 1878 0 1875 0 1869 0 1869 0 1885 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.10 18 0.10 18 0.00 18	58 0.) 0. 50 1. 65 0. 86 0. 84 0.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0 46 0.6	6 1857 2'58'85 2 1850 0 1869 0 1885 6 1885	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1	871 854 ¹) 875 864 886 886 884	11.49 8.65 18.51 23.46 13.73 21.22 16.10	13. 58 18 12. 70 18 39. 47 18	59 2 61 10	1.86 185 0.38 187
87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner	0.08 0.44 0.89 0.00 1.89 0.80 0.80 0.68 1.21	0.40 1.25 5.40 0.00 1.26 1.04 3.65	1872 1857 1865 1886 1886 1884 1865	0.00 (*) 0.00 1855 0.00 (') 0.00 0.35 1885 0.33 18*5 0.52 '66 '68	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1	1857 0 1878 0 1875 0 1869 0 1869 0 1885 0 1885 0 1864 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 18	58 0. 50 1. 65 0. 86 0. 84 0. 67 1.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0 46 0.6 24 3.5	6 1857 2'58'85 2 1850 0 1869 0 1885 6 1885 7 1855	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.10 1	871 854 1) 875 864 886 886 886 884 856	11.49 8.65 18.51 23.46 13.73 21.22 16.10 15.02	13. 58 18 12. 70 18 39. 47 18 27. 23 18	59 8 61 10	. 42 187 . 86 185 . 38 187 . 37 186 . 60 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 89, Gallinas Springs 90, Puerto de Luna 91, Fort Summer 92, Ceboletta	0.08 0.44 0.89 0.00 1.89 0.80 0.80 0.68 1.21 1.59	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60	1872 1857 1865 1886 1884 1865 1865	0.00 (²) 0.00 1/855 0.00 (¹) 0.00 0.35 1885 0.33 18*5 0.52 '66 '68 1.58 1850	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64 0.68	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1	1857 0 1878 0 1875 0 1869 0 1885 0 1885 0 1885 0 1864 0 1851 0	0.58 18 0.00 (¹ 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18	58 0. 50 1. 65 0. 86 0. 84 0. 67 1. 50 1.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0 46 0.6 24 3.5 13 1.8	6 1857 2'58'85 2 1850 0 1869 0 1885 6 1885 7 1855 4 1850	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.10 1 0.40 1	871 854 ¹) 875 864 886 886 886 884 856 849	11.49 8.65 18.51 23.46 13.73 21.22 16.10 15.02 12.05	13. 58 18 12. 70 18 39. 47 18 	59 8 61 10 65 12 51 9	1. 86 185 0. 38 187 1. 37 186 0. 69 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81	0.40 1.25 5.40 0.00 1.26 1.04 3.65	1872 1857 1865 1886 1884 1865 1851 1865	0.00 (*) 0.00 1855 0.00 (') 0.00 0.35 1885 0.33 18*5 0.52 '66 '68	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1	1857 0 1878 0 1875 0 1869 0 1885 0 1885 0 1885 0 1864 0 1851 0 1878 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 18	58 0. 50 1. 50 1. 65 0. 86 0. 84 0. 67 1. 50 1. 50 1. 9 0.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0 46 0.6 24 3.5	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1885 6 1885 7 1855 4 1850 0 1858	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.10 1 0.40 1 0.00 5	871 854 1) 875 864 886 886 886 886 886 886 886 886 849 7 59	11.49 8.65 18.51 23.46 13.73 21.22 16.10 15.02	13. 58 18 12. 70 18 39. 47 18 27. 23 18 15. 12 18 16. 30 18	59 2 61 10 	1. 86 185 0. 38 187 2. 37 186 0. 69 185 1. 78 186
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Purto de Luna 91, Fort Sumner 92, Ceboletta 93, Albuquerque 94, Santa Fé 95. Fort Wingate	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19	1872 1857 1865 1886 1884 1865 1851 1865 1851	0.00 (*) 0.00 1255 0.00 (*) 0.00 (*) 0.35 1885 0.33 18-5 0.52 '66 '68 1.58 1850 0.00 (*) 0.00 (*)	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64 0.68 0.40	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1	1857 0 1878 0 1875 0 1875 0 1869 0 1885 0 1885 0 1864 0 1851 0 1878 0 1878 0 1878 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18	58 0. 50 1. 550 1. 655 0. 866 0. 87 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 0. 0.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1885 6 1885 7 1855 4 1850 0 1858 6 1874	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.10 1 0.40 1 0.00 5 0.00 1	871 854 1) 875 864 886 886 886 886 886 886 886 886 886	11.49 8.65 18.51 23.46 13.73 21.22 16.10 15.02 12.05 7.76	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18	59 8 61 10 65 12 51 1 58 8 54 7	1. 86 185 38 187 38 187 38 187 38 187 38 186 39 185 30 185 30 185 30 185 30 186 30 185 30
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Gallinas Springs 90, Purto de Luna 91, Fort Sumner 92, Ceboletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19	1872 1857 1865 1886 1884 1865 1851 1865	0.00 (²) 0.00 1/855 0.00 (¹) 0.00 0.35 1885 0.33 18-5 0.52'66'68 1.58 1850 0.00 (¹)	0. 67 0. 97 0. 77 0. 38 0. 75 0. 18 0. 07 0. 64 0. 64 0. 40 0. 89 0. 77 0. 00	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 1.83 1 3.54 1 4.10 1	1857 0 1878 0 1875 0 1875 0 1869 0 1885 0 1885 0 1864 0 1851 0 1878 0 1878 0 1864 0 1878 0 1868 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.00 18 0.00 18 0.55 18 0.00 18 0.00 18 0.00 18 0.00 14 0.00 (1) 0.00 (1) 0.00 (1) 0.00 (1)	58 0. 50 1. 50 1. 65 0. 86 0. 87 1. 50 1. 50 0. 9 0. 0. 0. 0. 0. 0. 0.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1885 7 1855 7 1855 4 1850 0 1858 0 1858 0 1858 0 1858	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.10 1 0.40 1 0.00 5 0.00 1	871 854 1) 875 864 886 886 886 886 886 886 886 886 886	11.49 8.65 18.51 23.46 13.73 21.22 18.10 15.02 12.05 7.76 14.81	13. 58 18 12. 70 18 39. 47 18 27. 23 18 15. 12 18 16. 30 18	59 8 61 10 65 12 51 1 58 8 54 7	1. 86 185 38 187 38 187 38 187 38 187 38 186 39 185 30 185 30 185 30 185 30 186 30 185 30
 Camp Burgwin	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03 1.08	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19 4.60 1.81	1872 1857 1865 1886 1884 1865 1865 1865 1865 1881 1865 1881 1867	0.00 (³) 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.35 1885 0.33 18*5 0.52 '66 '68 1.58 1850 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 '78 '82 0.95 1880	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64 0.68 0.40 0.40 0.77 0.00 1.16	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 4.10 1 1.76 1	1857 0 1878 0 1875 0 1875 0 1869 0 1885 0 1885 0 1864 0 1851 0 1878 0 1878 0 1864 0 1878 0 1868 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18	58 0. 50 1. 550 1. 655 0. 86 0. 84 0. 857 1. 500 1.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867	0.06 1 0.00 (0.20 1 0.00 1 0.25 1 0.26 1 0.26 1 0.10 1 0.40 1 0.00 1 0.00 1	871 854 4) 875 864 886 886 884 856 849 7 59 871 866 850	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18	59 8 61 10 65 12 51 1 58 8 54 7	1. 86 185 38 187 38 187 38 187 38 187 38 186 39 185 30 185 30 185 30 185 30 186 30 185 30
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 80, Purto de Luna 91, Fort Sumner 92, Ceboletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 96, Fort Tuleroso	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03 1.08 1.52 1.29	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19 4.60 1.81 2.58	1872 1857 1865 1886 1884 1865 1851 1865 1881 1867 1850 1874	0.00 (*) 0.00 (*) 0.00 (*) 0.00 (*) 0.35 1885 0.32 1885 0.52 '06 '68 1.58 1850 0.00 (*) 0.00 (*) 0.00 '78 '82 0.95 1880 0.00 1873	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64 0.68 0.40 0.49 0.77 0.00 1.16	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 4.10 1 1.76 1	1857 0 1878 0 1875 0 1869 0 1885 0 1885 0 1886 0 1886 0 1886 0 1878 0 1878 0 1878 0 1878 0 1864 0 1878 0 1878 0 1864 0 1878 0 1878 0 1849 0	0.58 18 0.00 (1) 0.12 18 0.00 18 0.10 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 14 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1	58 0. 50 1. 65 0. 86 0. 867 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 1857 2 '58'85 2 1850 0 1869 0 1885 6 1885 7 1853 4 1850 0 1858 6 1874 5 1867 1	0.06 1 0.00 1 0.20 1 0.25 1 0.25 1 0.25 1 0.10 1 0.40 1 0.00 5 0.00 1 0.00 1 0.00 1 0.44 1	871 854 1) 875 864 886 886 884 856 849 7 59 871 866 850 850	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18 23.06 18	59 2 61 10 	1. 86 185 38 187 38 187 37 186 3. 37 186 3. 37 186 3. 78 186 5. 78 186 5. 75 186 5. 69 187
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Porto de Luna 91, Fort Sumner 92, Celuoletta 92, Celuoletta 93, Albuquerque 44, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 94, Fort Tuleroso 96, Fort Tuleroso 96, Fort Conrad	U. 08 0. 44 0. 89 0. 00 1. 89 0. 80 0. 68 1. 21 1. 59 0. 81 T. 03 1. 08 1. 52 1. 29 0. 50	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19 4.60 1.81 2.58 1.63	1872 1857 1865 1886 1884 1865 1851 1865 1851 1865 1881 1867 1850 1874 1852	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.67 0.97 0.77 0.38 0.75 0.18 0.07 0.64 0.40 0.89 0.77 0.06 1.16 0.38	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 4.10 1 1.76 1 1.34 1	1857 0 1878 0 1875 0 1875 0 1865 0 1885 0 1885 0 1864 0 1878 0 1878 0 1878 0 1864 0 1878 0 1864 0 1864 0 1864 0 1864 0 1859 0 1859 0 1849 0 1852 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.10 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹) 0.0	58 0. 50 1. 65 0. 86 0. 87 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 88 0. 88 1. 7. 551	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1885 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867 1 1880 7 1853	0.06 1 0.00 1 0.20 1 0.20 1 0.25 1 0.25 1 0.26 1 0.00 1 0.40 1 0.00 5 0.00 1 0.00 1 0.44 1 0.44 1	871 854 1) 875 864 886 886 884 856 849 7 59 871 866 850 850 2 54	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13 6. 76	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18 23.06 18 8.63 18	59 2 61 10 65 12 51 12 58 2 54 7 73 4 52 4	2. 37 186 3. 37 186 3. 37 186 3. 37 186 3. 78 186 5. 78 186 5. 75 146 5. 69 187 5. 76 185
 85, Camp Burgwin	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03 1.08 1.52 1.29 0.50 0.84	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 5.40 5.40 1.81 2.58 1.63 8.06	1872 1857 1865 1886 1884 1865 1851 1865 1851 1865 1881 1867 1850 1874 1852 1852	0.00 (*) 0.00 (*) 0.00 (*) 0.00 (*) 0.35 1885 0.33 18*5 0.52 '66 '68 1.58 1850 0.00 (*) 0.00 (*) 0.00 '78 '82 0.95 18*0 0.00 1853 0.00 1853	0. 67 0. 97 0. 77 0. 38 0. 75 0. 18 0. 07 0. 64 0. 40 0. 89 0. 77 0. 00 1. 16 0. 78 0. 78 0. 77 0. 00 1. 16 0. 78 0. 78 0. 77 0. 00 1. 16 0. 40 0. 75 0. 18 0. 75 0. 75 0. 18 0. 75 0. 18 0. 75 0. 18 0. 75 0. 18 0. 75 0. 18 0. 75 0. 75 0. 18 0. 75 0. 75 0. 18 0. 75 0. 77 0. 77	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.25 1 0.14 1 1.48 1 1.83 1 3.54 1 4.10 1 1.76 1 1.34 1 2.38 1	1857 0 1878 0 1875 0 1875 0 1865 0 1885 0 1885 0 1864 0 1878 0 1878 0 1878 0 1878 0 1878 0 1864 0 1878 0 1854 0 1854 0 1854 0 1854 0 1852 0 1852 0 1862 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹)	58 0. 50 1. 550 1. 655 0. 866 0. 884 0. 667 1. 550 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 51 0. 551 0. 51 0. 51 0.	55 0.8 42 1.4 66 3.1 50 1.0 62 1.0 62 1.0 64 0.6 24 3.5 13 1.8 36 1.4 890 2.2 899 2.7 40 31 0.8 331 40 1.0	6 1857 2'58'85 2 1850 0 1869 6 1885 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867 1 1880 7 1853 1 1874	0.06 1 0.20 1 0.20 1 0.25 1 0.25 1 0.25 1 0.25 1 0.40 1 0.00 5 0.00 1 0.00 1 0.00 5 0.00 1 0.00 5 0.00 1 0.00 5 0.00 1 0.00 5 0.00 1 0.00 5 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.25 1 0.00 100 1 0.00 100 100 100 100 100 100 100 100 100	871 854 1) 875 864 886 886 886 886 886 849 7 59 871 866 850 2 54	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13 6. 70 11. 59	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18 25.06 18 8.63 18 24.58 18	59 2 61 10 	1.86 185 1.38 187 1.37 186 1.09 185 1.78 186 1.75 186 1.69 187 1.69 187 1.69 187 1.63 185
85, Camp Burgwin	U. 08 0. 44 0. 89 0. 00 1. 89 0. 80 0. 68 1. 21 1. 59 0. 81 T. 03 1. 08 1. 52 1. 29 0. 50 0. 84 0. 70	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 5.40 5.40 5.40 1.60 4.19 4.60 1.81 2.58 1.63 8.06 1.15	1872 1857 1865 1865 1886 1884 1865 1865 1865 1881 1867 1850 1874 1852 1862 1862	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.67 0.97 0.77 0.38 0.07 0.64 0.07 0.64 0.40 0.89 0.77 0.00 1.16 0.38 0.78 0.78 0.40 0.89	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 1.83 1 3.54 1 4.10 1 1.76 1 1.34 1 2.38 1 0.20 1	1857 0 1878 0 1875 0 1869 0 1855 0 1855 0 1851 0 1854 0 1854 0 1854 0 1854 0 1854 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0	0.58 18 0.00 (¹ 0.12 18 0.00 18 0.00 18 0.00 18 0.00 (¹ 0.00 (¹)	58 0. 50 1. 550 1. 865 0. 884 0. 887 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 51 0. 551 0. 886 0.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2 '58 '85 2 1850 0 1869 0 1885 6 1855 4 1850 0 1858 6 1874 1 1880 7 1853 1 1874 5 1867	0.06 1 0.00 (0.20 1 0.20 1 0.25 1 0.26 1 0.26 1 0.40 1 0.40 1 0.00 5 0.00 1 0.00 1 0.04 1 0.05 5 0.00 1 0.04 1 0.05 5 0.00 1 0.44 1	871 854 4) 875 864 886 886 886 886 886 889 7 59 871 866 850 2 54 1) 886	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13 6. 76 11. 59 12. 63	13.58 18 12.70 18 39.47 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18 25.06 18 25.06 18 25.06 18 15.53 18 24.58 18 24.58 18 24.58 18 25.58	59 2 61 10	1. 86 185 1. 38 187 2. 37 186 1. 69 185 3. 78 186 75 186 1. 69 187 5. 76 185 5. 76 185 5. 78 185 5. 78 185 5. 25 188
85, Camp Burgwin 86, Fort Union 87, Lae Vegas 88, Fort Bascom 89, Gallinas Springs 90, Ports de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 44, Santa Fé 95, Fort Wingate 96, Loe Pinos 97, Socurro 94, Fort Tuleroso 94, Fort Conrad 90, Fort Conrad 90, Fort Craig 91, Lava 92, Fort McRae	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 T.03 1.08 1.52 1.29 0.50 0.84 0.70 0.28	$\begin{array}{c} 0.40\\ 1.25\\ 5.40\\ 0.00\\ \hline 1.26\\ 1.04\\ 3.65\\ 1.60\\ 5.40\\ 4.19\\ 4.60\\ \hline 1.81\\ 2.58\\ 1.63\\ 8.06\\ 1.15\\ 0.95\\ \end{array}$	1872 1857 1865 1886 1884 1865 1851 1865 1861 1865 1881 1867 1860 1874 1852 1862 1862 1886	0.00 (*) 0.00 (*) 0.00 (*) 0.00 (*) 0.35 1885 0.33 18*5 0.52 '66'68 1.58 1850 0.00 (*) 0.00 (*) 0.95 1880 0.00 1873 0.00 1873	0.67 0.97 0.77 0.38 0.78 0.08 0.07 0.64 0.68 0.40 0.70 0.00 1.16 0.38 0.78 0.78 0.78 0.48 0.78 0.78 0.78 0.48 0.78 0.33	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.25 1 0.25 1 0.25 1 1.48 1 1.48 1 1.48 1 1.48 1 1.47 1 1.48 1 1.47 1 1.48 1 1.23 8 1.34 1 2.38 1 0.94 1	1857 0 1878 0 1875 0 1869 0 1869 0 1864 0 1851 0 1878 0 1878 0 1874 0 1874 0 1875 0 1874 0 1875 0 1874 0 1875 0 1868 0 1849 0 1862 0 18852 0 18852 0 1862 0 1862 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 <	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.08 18 18 0.09 18 0.09 18 0.00 (²) (¹) 18 0.00 (²) 0.00 (²)	58 0.) 0. 550 1. 655 0. 866 0. 886 0. 887 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 500 1. 501 0. 800 1. 551 0. 9 0. 860 0. 74 0.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'85 2 1850 0 1869 0 1865 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867 1 1880 7 1853 1 1874 5 1885 1 1874 5 1885 0 1872	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0.20 & 1) \\ 0.20 & 1 \\ 0.20 & 1 \\ 0.25 & 1 \\ 0.26 & 1 \\ 0.25 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.00 & 5 \\ 0.00 & 1 \\ 0.00 & 5 \\ 0.00 & 1 \\ 0.44 & 1 \\ 0.08 & 5 \\ 0.00 & 1 \\ 0.44 & 1 \\ 0.08 & 5 \\ 0.00 & 1 \\ 0.00 & 7 \\ 0.00 &$	871 854 1) 875 864 886 886 886 884 875 886 884 875 886 850 2'54 (1) 886 3'74	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13 6. 76 11. 59 12. 63 11. 10	13.58 18 12.70 18 39.47 18 27.23 18 15.12 18 16.30 18 24.80 18 25.06 18 8.63 18 24.58 18 15.53 18 13.45 18	59 2 61 10 	1. 86 185 1. 38 187 2. 37 186 1. 69 187 5. 78 186 5. 69 187 5. 63 185 1. 63 185 9. 25 188 5. 97 187
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Ceboletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 97, Socorro 98, Fort Tuleroso 99, Fort Conrad 90, Fort Craig 91, Lava 92, Fort McRae 93, Fort Stanton	0.08 0.44 0.89 0.00 1.89 0.80 0.80 0.80 0.81 1.59 0.81 1.52 1.59 0.51 1.52 1.29 0.50 0.84 0.70 0.25	0.40 1.25 5.40 0.00 1.26 1.04 3.65 1.60 5.40 4.19 4.60 1.81 2.58 1.63 8.06 1.15 9.302	1872 1857 1865 1865 1886 1884 1865 1861 1865 1881 1865 1881 1867 1850 1874 1852 1862 1876 1870 1870	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0.\ 67\\ 0.\ 97\\ 0.\ 38\\ 0.\ 75\\ 0.\ 18\\ 0.\ 07\\ 0.\ 64\\ 0.\ 64\\ 0.\ 64\\ 0.\ 89\\ 0.\ 77\\ 0.\ 00\\ 1.\ 16\\ 0.\ 38\\ 0.\ 78\\ 0.\ 47\\ 0.\ 08\\ 0.\ 38\\ 0.\ 52\\ \end{array}$	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.25 1 0.41 1 1.48 1 1.83 1 3.54 1 4.10 1 1.76 1 1.76 1 1.34 1 2.38 1 0.20 1 0.94 1 2.14 1	1857 0 1875 0 1875 0 1869 0 1865 0 1865 0 1865 0 1865 0 1865 0 1865 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1889 0 1885 0 1885 0 1885 0 1880 0 1880 0 1880 0 1880 0 1880 0 1880 0 1880 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹)	58 0. 50 1. 50 1. 50 1. 65 0. 84 0. 84 0. 85 0. 84 0. 80 1. 80 1. 751 0. 9 0. 74 0. 170 4.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'k5 2 1850 0 1869 0 1885 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867 1 1880 7 1853 1 1874 5 1867 1 1874 5 1872 2 1869	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0.20 & 1) \\ 0.20 & 1 \\ 0.20 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.00 &$	871 854 4) 875 864 886 886 886 849 7 '59 871 866 2 '54 (1) 886 3 '74 871	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 14. 81 14. 77 8. 01 33. 13 6. 76 11. 59 12. 63 11. 10 19. 55	13.58 18 12.70 18 30.47 18 	59 2 61 10 	1. 86 185 . 38 187 . 37 186 . 09 185 . 78 186 . 75 186 . 69 187 . 63 185 . 25 188 . 97 187 . 65 186
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 96, Fort Tuleroso 97, Socorro 99, Fort Craig 00, Fort Craig 01, Lava 02, Fort McRae 03, Fort Stanton 04, Fort Thorn 05, Fort Stelden	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 1.08 1.08 1.29 0.50 0.84 0.70 0.28 1.55 0.33 0.74	$\begin{array}{c} 0.40\\ 1.25\\ 5.40\\ 0.00\\ \hline 1.26\\ 1.04\\ 3.65\\ 1.60\\ 5.40\\ 4.19\\ 4.60\\ \hline 1.81\\ 2.58\\ 1.63\\ 8.06\\ 1.15\\ 0.95\\ \end{array}$	1872 1857 1865 1886 1886 1886 1865 1861 1865 1851 1865 1850 1874 1852 1862 1862 1862 1862 1862 1862 1862 186	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.67 0.97 0.77 0.38 0.78 0.08 0.07 0.64 0.68 0.40 0.70 0.00 1.16 0.38 0.78 0.78 0.78 0.48 0.78 0.78 0.78 0.48 0.78 0.33	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.25 1 0.41 1 1.48 1 1.83 1 3.54 1 4.10 1 1.76 1 1.76 1 1.34 1 2.38 1 0.20 1 0.94 1 2.14 1	1857 0 1875 0 1875 0 1869 0 1865 0 1865 0 1865 0 1865 0 1864 0 1865 0 1864 0 1878 0 1878 0 1864 0 1864 0 1865 0 1868 0 1849 0 1852 0 1852 0 1852 0 1852 0 1855 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹) 1.18 0.00 70 0 0.00 18 0.00 18 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'85 2 1850 0 1869 0 1885 6 1885 7 1855 1885 0 1874 5 1867 7 1853 1 1874 5 1867 7 1853 1 1874 5 1885 0 1872 2 1809 0 1857	0,06 1 0,00 (0,20 1 0,20 1 0,25 1 0,25 1 0,26 1 0,26 1 0,00 1 0,00 1 0,00 1 0,00 1 0,00 1 0,00 (1) 1 0,00 7 0 00 1 0,00 1	871 854 4) 875 864 886 849 759 871 866 849 759 871 866 850 2'54 (1) 886 3'74 855	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 7. 76 14. 81 14. 77 8. 01 33. 13 6. 70 11. 59 12. 63 11. 10 19. 55 14. 71	13.58 18 12.70 18 38.47 18 	59 2 61 10	1. 86 185 1. 86 185 1. 38 187 1. 37 186 1. 09 185 1. 78 186 1. 75 146 1. 69 187 1. 63 185 1. 63 185 1. 63 185 1. 63 185 1. 65 186 1. 65 186 1. 65 186 1. 65 186 1. 65 186 1. 65 185 1. 85 185 1. 65 185
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 96, Fort Tuleroso 97, Socorro 99, Fort Craig 00, Fort Craig 01, Lava 02, Fort McRae 03, Fort Stanton 04, Fort Thorn 05, Fort Stelden	0.08 0.44 0.89 0.00 1.89 0.80 0.68 1.21 1.59 0.81 1.08 1.08 1.29 0.50 0.84 0.70 0.28 1.55 0.33 0.74	$\begin{array}{c} 0.40\\ 1.25\\ 5.40\\ 0.00\\ 1.26\\ 1.04\\ 3.65\\ 1.60\\ 5.40\\ 4.19\\ 4.60\\ 1.81\\ 2.58\\ 1.63\\ 8.06\\ 1.15\\ 0.95\\ 3.02\\ 1.00\\ \end{array}$	1872 1857 1865 1886 1884 1865 1861 1865 1881 1865 1881 1867 1852 1850 1874 1852 1866 1872 1856	0.00 (1) 0.00 (1) 0.00 (1) 0.00 (1) 0.33 1885 0.33 185 0.33 185 0.52 '06 '68 1.58 1850 0.00 (1) 0.00 (1) 0.00 (2) 0.00 1873 0.00 1873 0.00 1873 0.00 1873 0.00 1873 0.00 1873 0.00 1873	0.67 0.97 0.38 0.75 0.18 0.07 0.64 0.07 0.64 0.40 0.89 0.75 0.00 1.16 0.38 0.47 0.08 0.47 0.08 0.33 0.52 0.52	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.25 1 0.25 1 0.25 1 0.25 1 1.48 1 1.83 1 3.54 1 4.10 1 	1857 0 1875 0 1875 0 1869 0 1865 0 1865 0 1865 0 1865 0 1864 0 1865 0 1864 0 1851 0 1854 0 1852 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1862 0 1865 0 1860 0 1855 0 1855 0 1874 0	0.58 18 0.00 (¹) 0.12 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 18 0.00 (¹) 0.00 (¹) 18 0.00 70 0 0.00 18 0.00 0 0.00 18 0.00	$\begin{array}{c} 58 & 0. \\) & 0. \\ 50 & 1. \\ 50 & 1. \\ 50 & 1. \\ 86 & 0. \\ 86 & 0. \\ 88 & 0. \\ 88 & 0. \\ 88 & 1. \\ 0. \\ 88 & 1. \\ 0. \\ 0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'k5 2 1850 0 1869 0 1885 6 1885 7 1855 4 1850 0 1858 6 1874 5 1867 7 1853 1 1874 5 1885 7 1853 1 1874 5 1885 0 1872 2 1869 0 1872	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0.20 & 1) \\ 0.20 & 1 \\ 0.20 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.00 & 5 \\ 0.00 & 1 \\ 0.00 &$	871 854 4) 875 864 886 849 759 871 866 849 759 871 866 850 2'54 (1) 886 3'74 855	11. 49 8. 65 18. 51 23. 46 13. 73 21. 22 16. 10 15. 02 12. 05 14. 81 14. 77 8. 01 33. 13 6. 76 11. 59 12. 63 11. 10 19. 55	13.58 18 12.70 18 30.47 18 	59 2 61 10	. 86 186 . 38 187 . 38 187 . 38 187 . 38 187 . 38 187 . 75 186 . 69 185 . 76 185 . 63 185 . 58 185 . 58 185 . 58 185 . 49 187 . 49 187 . 49 187 . 49 187
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 44, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Scourro 94, Fort Tuleroso 94, Fort Craig 00, Fort Craig 01, Lava 02, Fort McRae 03, Fort Stanton 04, Fort Selden 16, Fort Selden 16, La Mesilla 7, Kott Fillmore	$\begin{array}{c} 0.08\\ 0.44\\ 0.89\\ 0.00\\ 1.89\\ 0.80\\ 0.88\\ 1.21\\ 1.59\\ 0.81\\ 1.03\\ 1.08\\ 1.52\\ 1.29\\ 0.51\\ 1.52\\ 1.29\\ 0.54\\ 0.70\\ 0.28\\ 1.55\\ 0.33\\ 0.74\\ 0.85\\ 0.55\\ 0.33\\ 0.74\\ 0.85\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\ 0.35\\ 0.55\\$	0.40 1.25 5.40 0.00 1.04 3.65 1.60 5.40 4.19 4.60 1.81 2.58 1.63 8.06 1.15 0.95 3.02 2.65 2.14 2.41	1872 1857 1865 1886 1884 1865 1851 1865 1851 1865 1874 1852 1862 1862 1862 1874 1852 1866 1874 1865 1876 1876 1877	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0. 67 0. 97 0. 75 0. 75 0. 18 0. 07 0. 64 0. 64 0. 64 0. 64 0. 68 0. 77 0. 068 0. 77 0. 08 0. 77 0. 08 0. 77 0. 08 0. 77 0. 08 0. 77 0. 08 0. 75 0. 18 0. 07 0. 18 0. 0. 19 0. 0. 18 0. 0. 19 0. 0. 10 0. 0. 0. 10 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	1.97 1 3.90 1 0.65 1 1.50 1 0.25 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 4.10 1 1.76 1 1.38 1 0.94 1 2.14 1 0.94 1 0.94 1 2.14 1 0.94 1 0.94 1 2.14 1 0.94 1 0.94 1 2.14 1 0.94 1	1857 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1849 0 1854 0 1854 0 1854 0 1852 0 1852 0 1852 0 1852 0 1852 0 1855 0 1855 0 1878 0 1852 0 1852 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0	$\begin{array}{c} 0.58 & 18\\ 0.00 & (^1)\\ 0.12 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^2)\\ 0.00 & (^2)\\ 0.00 & (^2)\\ 0.00 & (^2)\\ 0.00 & 18\\ 0.00 & (^2)\\$	58 0. 50 1. 65 0. 86 0. 86 0. 86 0. 86 0. 87 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 50 1. 51 0. 74 0. 757 0. 758 0.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2 '58' k5 2 '58' k5 2 1850 0 1869 0 1885 6 1885 7 1855 7 1855 7 1855 7 1855 7 1855 7 1855 7 1857 7 1853 1 1874 7 1853 1 1874 7 1853 1 1874 7 1875 7 1879 6 1879 6 1879	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0 \\ 0.20 & 1 \\ 0.00 & 1 \\ 0.25 & 1 \\ 0.05 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.00 & 1 \\ 0.00 & 1 \\ 0.00 & 1 \\ 0.00 & 1 \\ 0.00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 00 & 1 \\ 0.00 & 7 \\ 0 & 0 & 1 \\ 0.00 & 7 \\ 0 & 0 & 1 \\ 0.00 & 7 \\ 0 & 0 & 1 \\ 0.00 & 7 \\ 0 & 0 & 1 \\ 0.00 & 7 \\ 0 & 0 & 1 \\ 0.00 &$	871 1) 854 875 864 8856 849 759 871 856 849 2'54 1) 8866 3'74 871 855 1'76 877 871 875 1'76	$\begin{array}{c} 11. \ 49\\ 8. \ 65\\ 18. \ 51\\ 23. \ 46\\ 13. \ 73\\ 21. \ 22\\ 12. \ 02\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 12. \ 05\\ 13. \ 13\\ 0. \ 76\\ 14. \ 81\\ 14. \ 71\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 105\\ 19. \ 55\\ 12. \ 63\\ 11. \ 56\\ 13. \ 105\\ 11. \ 56\\ 14. \ 71\\ 8. \ 49\\ 8. \ 42\\ 10. \ 105\\ 10. \ 10. \ 105\\ 10. \ 10. \ 105\\ 10. \ 10. \ 105\\ 10. \ 10. \ 10. \ 105\\ 10. \ $	13.58 18 12.70 18 39.47 18 	59 2 81 10	. 86 186 . 38 187 . 38 187 . 38 187 . 38 187 . 38 186 . 69 185 . 78 186 . 78 186 . 78 186 . 78 186 . 78 188 . 76 182 . 63 184 . 63 184 . 59 187 . 18 . 58 183 . 51 18
85, Camp Burgwin 86, Fort Union 87, Las Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Loe Pinos 97, Scourro 96, Fort Unigate 97, Scourro 96, Fort Cariag 00, Fort Cariag 01, Lava 02, Fort Stanton 04, Fort Stanton 05, Fort Stanton 05, Fort Stanton 04, Fort Stanton 05, Fort Selden 105, La Mesilla 106, Fort Webster	$\begin{array}{c} 0.08\\ 0.44\\ 0.89\\ 0.00\\ 1.89\\ 0.00\\ 1.89\\ 0.68\\ 1.21\\ 1.59\\ 0.81\\ 1.52\\ 1.29\\ 1.55\\ 1.52\\ 1.29\\ 0.50\\ 0.84\\ 0.70\\ 0.28\\ 1.55\\ 0.33\\ 0.74\\ 0.87\\ 0.55\\ 0.80\\ \end{array}$	$\begin{array}{c} 0,40\\ 1,25\\ 5,40\\ 0,00\\ \hline \\ 1,26\\ 1,04\\ 3,65\\ 1,60\\ 5,40\\ 4,19\\ 4,60\\ \hline \\ 1,81\\ 2,58\\ 1,63\\ 8,06\\ 1,15\\ 3,02\\ 1,00\\ 2,65\\ 2,14\\ 2,41\\ 1,19\\ \end{array}$	1872 1857 1865 1886 1884 1865 1851 1865 1851 1865 1874 1850 1874 1852 1866 1874 1852 1876 1876 1871 1876	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0. \ 67\\ 0. \ 97\\ 0. \ 38\\ 0. \ 75\\ 0. \ 18\\ 0. \ 61\\ 0. \ 64\\ 0. \ 64\\ 0. \ 68\\ 0. \ 77\\ 0. \ 06\\ 0. \ 89\\ 0. \ 77\\ 0. \ 06\\ 0. \ 89\\ 0. \ 77\\ 0. \ 00\\ 1. \ 16\\ 0. \ 38\\ 0. \ 78\\ 0. \ 33\\ 0. \ 52\\ 0. \ 71\\ 0. \ 08\\ 0. \ 33\\ 0. \ 52\\ 0. \ 71\\ 0. \ 41\\ 0. \ 27\\ 0. \ 41\\ 0. \ 87\\ 0. \ 98\\ 0. \ 78\\ 0. \ $	1.97 1 3.90 1 0.65 1 1.50 1	1857 0 1875 0 1875 0 1885 0 1885 0 1885 0 1875 0 1885 0 1885 0 1878 0 1854 0 1857 0 1858 0 1852 0 1864 0 1852 0 1865 0 1885 0 1885 0 1885 0 1885 0 1885 0 1855 0 1874 0 1872 0 1852 0 1852 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'k5 2'58'k5 2 1850 0 1869 0 1885 6 1885 7 1855 4 1850 0 1858 6 1885 7 1855 4 1850 0 1857 1 1880 7 1883 1 1874 5 1887 1 1874 5 1880 0 1872 2 1809 0 1857 0 1872 4 1851 0 1851 0 1851	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (\\ 0.20 & 1 \\ 0.20 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.26 & 1 \\ 0.00$	871 1) 875 864 886 886 886 850 871 866 850 2'54 (1) 886 3'74 871 855 1'76 875 875 853	$\begin{array}{c} 11. \ 49\\ 8. \ 65\\ 18. \ 51\\ 23. \ 46\\ 13. \ 73\\ 21. \ 22\\ 16. \ 10\\ 15. \ 02\\ 12. \ 05\\ 7. \ 76\\ 14. \ 81\\ 14. \ 77\\ 33. \ 13\\ 6. \ 76\\ 11. \ 59\\ 11. \ 59\\ 11. \ 50\\ 11. \ 59\\ 11. \ 10\\ 19. \ 55\\ 18. \ 49\\ 8. \ 90\\ 8. \ 42\\ 19. \ 46\\ \end{array}$	13.58 18 12.70 18 38.47 18 27.23 18 15.12 18 16.20 18 27.23 18 15.12 18 16.20 18 24.60 18 24.60 18 24.56 18 13.45 18 24.55 18 13.45 18 20.55 18 12.60 18 12.60 18 12.60 18 12.60 18	59 2 81 10	.86 185 .38 187 .37 186 .09 185 .78 186 .78 186 .75 186 .69 187 .63 185 .63 185 .97 187 .97 188 .97 187 .97 188 .97 187 .97 188 .97 187 .97 187 .97 187 .97 187 .97 187 .97 187 .97 187 .97 187 .49 187 .11 187 .79 185
85, Camp Burgwin 86, Fort Union 87, Lae Vegas 88, Fort Bascom 89, Gallinas Springs 90, Porto de Luna 91, Fort Sumner 92, Celuoletta 82, Albuquerque 44, Santa Fé 95, Fort Wingate 96, Loe Pinos 97, Socorro 98, Fort Tuleroso 99, Fort Conrad 90, Fort Craig 10, Lava 10, Fort McRae 10, Fort Stanton 46, Fort Stanton 46, Fort Selden 46, La Mesilla 17, Fort Fillmore 48, Fort Webster 49, Fort Webster 49, Fort Webster	0.08 0.44 0.89 0.00 1.89 0.60 1.59 0.80 1.21 1.59 0.81 1.08 1.52 1.29 0.84 0.28 1.29 0.84 0.28 1.29 0.84 0.28 1.55 0.83 0.74 0.55 0.83	$\begin{array}{c} 0,40\\ 1,25\\ 5,40\\ 0,00\\ 1,26\\ 1,04\\ 3,65\\ 1,60\\ 5,40\\ 4,60\\ 1,81\\ 2,58\\ 1,63\\ 8,06\\ 1,15\\ 0,95\\ 3,02\\ 1,00\\ 2,65\\ 2,14\\ 2,41\\ 1,19\\ 4,17\\ \end{array}$	1872 1857 1865 1886 1884 1884 1865 1861 1865 1865 1865 1867 1850 1874 1852 1876	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0. \ 67\\ 0. \ 97\\ 0. \ 75\\ 0. \ 75\\ 0. \ 88\\ 0. \ 75\\ 0. \ 64\\ 0. \ 64\\ 0. \ 68\\ 0. \ $	1.97 1 3.90 1 0.65 1 1.50 1 0.65 1 1.52 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 1.83 1 3.54 1 1.354 1 2.38 1 0.94 1 2.01 1 0.94 1 2.01 1 1.94 1 2.38 1 0.94 1 2.01 1 1.94 1 2.38 1 0.94 1 2.01 1 1.94 1 1.94 1 2.38 1 0.94 1 2.01 1 1.94 1 1.94 1 2.38 1 0.94 1 1.94	1857 0 1878 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1849 0 1851 0 1878 0 1878 0 1852 0 1852 0 1852 0 1852 0 1852 0 1855 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1874 0 1872 0 1872 0 1872 0 1872 0 1872 0 1872 0	0.58 18 0.00 (¹) 12 18 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 (²) 0.00 (²) 0.00 18 0.00 (²) 0.00 (²) 0.00 18 0.00 (²) 0.00 (²)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'×52 2'58'×52 2'58'×52 2'58'×52 1869 0 1869 0 1869 0 1869 0 1869 0 1869 0 1869 0 1857 1 1867 1 1867 1 1867 1 1867 1 1874 5 1867 1 1874 5 1867 1 1874 5 1867 0 1872 2 1860 0 1872 0 1872 0 1872 0 1872 0 1872 0 1872 0 1872 0 1853 0 1872 0 1872 0 1854 8 1874 5 1865 1 1874 5 1867 1 1853 1 1874 5 1865 1 1855 8 1874 5 1865 1 1855 8 1874 5 1865 1 1855 8 1875 1 1855 1 1855	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0.20 & 1) \\ 0.20 & 1 \\ 0.00 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.00 &$	871 854 1) 875 864 886 886 886 886 850 2'54 (1) 886 850 2'54 (1) 886 875 2'54 (1) 887 875 1'69 7'59 875 850 2'54 2'55	$\begin{array}{c} 11. \ 49\\ 8. \ 65\\ 18. \ 51\\ 23. \ 46\\ 13. \ 73\\ 21. \ 22\\ 21. \ 22\\ 21. \ 22\\ 21. \ 22\\ 12. \ 02\\ 12. \ 02\\ 12. \ 03\\ 12. \ 03\\ 12. \ 03\\ 11. \ 10\\ 15. \ 03\\ 11. \ 59\\ 12. \ 63\\ 11. \ 19. \ 55\\ 14. \ 71\\ 8. \ 90\\ 8. \ 42\\ 19. \ 42\\ 14. \ 72\\ 14. \ $	13.58 18 12.70 18 38.47 18 15.12 18 16.51 18 14.30 18 24.80 18 24.80 18 24.80 18 24.80 18 13.53 18 24.55 18 13.45 18 28.70 18 29.70 18 20.55 18 12.41 18 20.73 18 22.18 18 22.18 18	59 2 81 10	5. 86 185 5. 38 187 5. 38 187 5. 38 187 5. 37 186 5. 69 187 5. 78 186 5. 78 186 5. 78 185 5. 79 187 5. 49 187 5. 40 187
85, Camp Burgwin 86, Fort Union 87, Lae Vegas 88, Fort Bascom 89, Gallinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Ceboletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Loe Pinos 97, Socorro 96, Fort Vingate 97, Socorro 96, Fort Conrad 90, Fort Conrad 90, Fort Conrad 90, Fort Craig 91, Lava 92, Fort McRae 93, Fort Stanton 94, Fort Stanton 95, Fort Stanton 96, Fort Stanton 96, Fort Webster 96, Fort Webster 96, Fort Bayard 90, Sulta Cirv	0.08 0.44 0.89 0.00 1.89 0.60 0.68 1.21 1.59 0.81 1.52 1.29 0.50 0.84 0.74 0.87 0.87 0.87 0.82 1.19	$\begin{array}{c} 0,40\\ 1,25\\ 5,40\\ 0,00\\ \hline \\ 1,26\\ 1,04\\ 3,65\\ 1,60\\ 5,40\\ \hline \\ 1,81\\ 2,58\\ 1,63\\ 8,06\\ 1,15\\ 0,95\\ 2,14\\ 1,19\\ 4,10\\ 2,65\\ 2,14\\ 1,19\\ 4,21\\ 3,21\\ \end{array}$	1872 1857 1865 1896 1884 1885 1851 1865 1881 1865 1881 1865 1881 1865 1880 1874 1852 1866 1870 1872 1885 1876 1881 1867 1881 1867 1887 1887 1887	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0.\ 67\\ 0.\ 97\\ 0.\ 97\\ 0.\ 77\\ 0.\ 38\\ 0.\ 75\\ 0.\ 18\\ 0.\ 78\\ 0.\ 07\\ 0.\ 08\\ 0.\ 77\\ 0.\ 0.\ 00\\ 0.\ 89\\ 0.\ 77\\ 0.\ 0.\ 00\\ 0.\ 89\\ 0.\ 77\\ 0.\ 0.\ 00\ 0.\ 00\\ 0.\ 00\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0$	1.97 1 3.90 1 0.65 1 1.50 1 1.50 1 1.50 1 1.48 1 0.81 1 1.83 1 1.83 1 1.83 1 1.83 1 1.76 1 1.76 1 1.28 1 2.38 1 0.20 1 0.20 1 1.29 1 2.38 1 0.20 1 0.21 1 1.36 4 1.28 1 1.28 1	1857 0 1878 0 1875 0 1875 0 1875 0 1875 0 1875 0 1885 0 1885 0 1878 0 1878 0 1878 0 1878 0 1878 0 1878 0 1852 0 1885 0 1885 0 1885 0 1885 0 1878 0 1874 0 1872 0 1874 0 1877 0 1878 0 1878 0 1878 0 1878 0 1878 0	$\begin{array}{c} 0.58 & 18\\ 0.00 & (^1)\\ 0.12 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & (^1)\\ 0.55 & 18\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 18\\ 0.00 & (^2)\\ 18\\ 0.00 & 18\\ 0.00$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'×52 2'58'×52 2'88'×52 2 1850 0 1885 6 1885 6 1885 7 1855 4 1850 0 1857 7 1853 4 1860 7 1853 1 1874 5 1885 0 1877 0 1872 2 1869 0 1877 0 1872 6 1879 4 1879 5 1879 5 1879	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0 \\ 0.20 & 1 \\ 0.00 & (0 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.40 & 1 \\ 0.00 & 5 \\ 0.00 & 1 \\ 0.$	871 875 875 8864 886 886 8875 886 8875 886 8871 886 871 886 871 886 871 886 871 886 874 875 876 877 887 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 875 886 849 875 886 875 886 849 875 886 875 886 849 875 886 875 886 875 886 849 875 886 875 886 875 886 875 886 875 886 875 886 875 886 875 875 876 877 886 877 886 877 886 877 877	$\begin{array}{c} 11. \ 49\\ 8. \ 65\\ 18. \ 51\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 11. \ 50\\ 7. \ 76\\ 14. \ 81\\ 1. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 8. \ 49\\ 19. \ 46\\ 14. \ 72\\ 20. \ 26\\ 20. \ 2$	13.58 18 12.70 18 39.47 18 	59 2 851 11 10 11 11 11 12 11 13 11 14 11 15 12 15 13 15 13 15 13 15 13 15 13 15 13 15 13 15 14 15 15 15 15 15 14 15 15 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 12 15 <	8. 86 185 8. 86 185 8. 37 186 9. 39 185 8. 78 186 7. 78 186 7. 78 186 7. 78 185 7. 19 7. 185 7. 19 7. 19 7. 19 7. 10 7.
85, Camp Burgwin. 86, Fort Union	$\begin{array}{c} 0.08\\ 0.44\\ 0.89\\ 0.00\\ 1.89\\ 0.00\\ 1.89\\ 0.68\\ 1.21\\ 1.59\\ 0.81\\ 1.08\\ 1.21\\ 1.59\\ 0.81\\ 1.08\\ 1.22\\ 1.29\\ 0.50\\ 0.81\\ 1.08\\ 1.52\\ 0.33\\ 0.84\\ 0.25\\ 0.33\\ 0.82\\ 1.19\\ 0.82\\ 1.19\\ 0.35\\ 0.80\\ 0.82\\ 1.19\\ 0.35\\ 0.80\\ 0.82\\ 1.19\\ 0.35\\ 0.80\\ 0.82\\$	$\begin{array}{c} 0,40\\ 1,25\\ 5,40\\ 0,00\\ 1,26\\ 1,04\\ 3,65\\ 1,60\\ 5,40\\ 4,60\\ 1,81\\ 2,58\\ 1,63\\ 8,06\\ 1,15\\ 0,95\\ 2,14\\ 2,41\\ 1,19\\ 4,17\\ 3,21\\ 0,72\\ \end{array}$	1872 1857 1865 1886 1884 1885 1884 1885 1884 1865 1884 1865 1884 1865 1884 1865 1884 1874 1852 1876 1878 1878 1870 1872 1876 1878 1878 1878 1878 1878 1878 1878	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0.\ 67\\ 0.\ 97\\ 0.\ 97\\ 0.\ 77\\ 0.\ 38\\ 0.\ 77\\ 0.\ 38\\ 0.\ 77\\ 0.\ 68\\ 0.\ 77\\ 0.\ 68\\ 0.\ 68\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 77\\ 0.\ 0.\ 69\\ 0.\ 78\\ 0.\ 78\\ 0.\ 78\\ 0.\ 69\\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\ 0.\ 78\$	1.971 3.901 0.651 1.501 1.501 1.501 1.501 1.501 1.41 1.481 1.481 1.410 1.41 1.481 1.354 1.354 1.364 1.364 1.94 1.94 1.94 1.94 1.94 1.94 1.94 1.9	1857 0 1878 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1885 0 1845 0 1851 0 1854 0 1854 0 1854 0 1852 0 1852 0 1852 0 1869 0 1860 0 1852 0 1862 0 1852 0 1863 0 1878 0 1877 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0 1852 0	0.58 18 0.00 (¹) 0.12 18 0.00 (¹) 0.00 (¹) 0.00 (¹) 0.00 (²) 0.00 18 0.00 18 0.00 (²) 0.00 (²) 0.00 18 0.00 (²) 0.00 (²) 0.00 18 0.00 18 0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 1857 2'58'×52 2 1850 0 1869 0 1865 6 1855 7 1853 6 1874 5 1867 1 1874 5 1867 1 1874 5 1867 1 1874 5 1872 2 1809 0 1852 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1849 5 1872 5 1872	$\begin{array}{c} 0.06 & 1 \\ 0.00 & (0 \\ 0.20 & 1 \\ 0.00 & (0 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.25 & 1 \\ 0.00 & 1 \\ 0.$	871 875 875 875 875 875 875 875 875	$\begin{array}{c} 11.49\\ 8.65\\ 23.46\\ 31.72\\ 23.46\\ 31.72\\ 12.346\\ 13.73\\ 12.25\\ 11.57\\ 12.05\\ 7.76\\ 14.81\\ 14.77\\ 12.05\\ 7.76\\ 14.81\\ 11.59\\ 12.63\\ 36.76\\ 11.59\\ 12.63\\ 8.49\\ 8.90\\ 12.63\\ 8.49\\ 14.72\\ 20.28\\ 8.40\\ 14.72\\ 20.28\\ 15.63\\ 15.03\\ 1$	13.58 18 12.70 18 38.47 18 15.12 18 15.12 18 16.30 18 24.60 18 24.60 18 24.60 18 15 53 18 28.70 18 29.73 18 29.73 18 20.55 18 30.62 18 30.62 18 30.62 18 30.62 18	59 2 81 10 53 12 10 51 12 10 53 12 10 53 12 10 54 17 57 10 57 10 57 10 57 10 57 10 57 10 57 10 57 10 57 11 57 11 57 11 57 11 57 11 57 11 57 10 57 100	
85, Camp Burgwin 86, Fort Union 87, Las Vegas 89, Callinas Springs 90, Puerto de Luna 91, Fort Sumner 92, Celoletta 93, Albuquerque 94, Santa Fé 95, Fort Wingate 96, Los Pinos 97, Socorro 94, Fort Tuleroso	$\begin{array}{c} 0.08\\ 0.44\\ 0.89\\ 0.00\\ 1.89\\ 0.00\\ 1.59\\ 0.80\\ 0.681\\ 1.159\\ 0.80\\ 1.21\\ 1.59\\ 0.81\\ 1.08\\ 1.52\\ 1.29\\ 0.84\\ 0.70\\ 0.84\\ 0.74\\ 0.85\\ 0.84\\ 0.74\\ 0.85\\ 0.880\\ 0.28\\ 1.19\\ 0.35\\ 0.58\end{array}$	$\begin{array}{c} 0,40\\ 1,25\\ 5,40\\ 0,00\\ \hline \\ 1,26\\ 1,04\\ 3,65\\ 1,60\\ 5,40\\ 5,40\\ 1,81\\ 2,58\\ 1,63\\ 8,06\\ 1,15\\ 0,95\\ 3,02\\ 1,63\\ 8,00\\ 2,65\\ 2,14\\ 1,19\\ 4,17\\ 3,21\\ \end{array}$	1872 1857 1857 1865 1884 1885 1886 1886 1885 1885 1885 1885 1870 1850 1874 1852 1886 1870 1857 1857 1857 1857 1857 1857 1857 1857	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 0.\ 67\\ 0.\ 97\\ 0.\ 97\\ 0.\ 77\\ 0.\ 38\\ 0.\ 75\\ 0.\ 18\\ 0.\ 78\\ 0.\ 07\\ 0.\ 08\\ 0.\ 77\\ 0.\ 0.\ 00\\ 0.\ 89\\ 0.\ 77\\ 0.\ 0.\ 00\\ 0.\ 89\\ 0.\ 77\\ 0.\ 0.\ 00\ 0.\ 00\\ 0.\ 00\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0$	1.97 1 3.90 1 0.65 1 1.50 1 1.50 1 0.14 1 1.48 1 0.81 1 1.83 1 3.54 1 1.354 1 1.76 1 1.76 1 1.34 1 2.38 1 0.94 1 1.94	1857 0 1878 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1875 0 1885 0 1885 0 1861 0 1853 0 1854 0 1852 0 1862 0 1852 0 1852 0 1852 0 1878 0 1875 0 1872 0 1873 0 1874 0 1875 0 1878 0 1878 0 1877 0 1878 0 1878 0 1877 0 1878 0 1877 0 1877 0	$\begin{array}{c} 0.58 & 18\\ 0.00 & (^1)\\ 0.12 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & 18\\ 0.00 & (^1)\\ 0.55 & 18\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 0.00 & (^1)\\ 18\\ 0.00 & (^2)\\ 18\\ 0.00 & 18\\ 0.00$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 1857 2'58'×52 2 1850 0 1869 0 1865 6 1855 7 1853 6 1874 5 1867 1 1874 5 1867 1 1874 5 1867 1 1874 5 1872 2 1809 0 1852 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1869 0 1872 2 1849 5 1872 5 1872	$\begin{array}{c} 0.06 \\ 0.00 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.25 \\ 1 \\ 0.26 \\ 1 \\ 0.26 \\ 1 \\ 0.26 \\ 1 \\ 0.25 \\ 1 \\ 0.25 \\ 1 \\ 0.25 \\ 1 \\ 0.26 \\ 1 \\ 0.26 \\ 1 \\ 0.00 \\ 0.00 \\ 1 \\ 0.00 \\$	871 875 875 8864 886 886 8875 886 8875 886 8871 886 871 886 871 886 871 886 871 886 874 875 876 877 887 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 849 875 886 875 886 849 875 886 875 886 849 875 886 875 886 849 875 886 875 886 875 886 849 875 886 875 886 875 886 875 886 875 886 875 886 875 886 875 875 876 877 886 877 886 877 886 877 877	$\begin{array}{c} 11. \ 49\\ 8. \ 65\\ 18. \ 51\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 13. \ 73\\ 23. \ 46\\ 11. \ 50\\ 7. \ 76\\ 14. \ 81\\ 1. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 59\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 10\\ 19. \ 55\\ 11. \ 8. \ 49\\ 19. \ 46\\ 14. \ 72\\ 20. \ 26\\ 20. \ 2$	13.58 18 12.70 18 39.47 18 	59 2 81 10 53 12 10 51 12 10 53 12 10 53 12 10 54 17 57 10 57 10 57 10 57 10 57 10 57 10 57 10 57 10 57 11 57 11 57 11 57 11 57 11 57 11 57 10 57 100	1. 86 180 2. 37 180 2. 37 180 5. 37 180 5. 69 187 5. 69 187 5. 69 187 5. 69 187 5. 69 183 5. 97 183 5. 68 180 5. 58 184 5. 58 188 5. 59 188

(1) Frequently.

(²) Generally.

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(T) Trace of rain-fall.

83

RAIN-FALL OF THE PACIFIC COAST AND

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TEXAS.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			Tet	T.c.	Eleva-		Record.		Remarks as to observers and miss-
No.	Name of station.	County.	Lat- itude.	Lon- gitude.	tion.	Length.	From—	To (inclu- sive)—	ing records.
514	Fort Elliott	Wheeler Dallam.t Sherman.t Hansford.t Ochiltree.i Lipscomb.t Hartley.t Moore.t Hutchinson.t Roberts.t Hemphill.t Oldham.t Potter.t Carson.t Greer.t Deaf Smith.t Randall.t Collingsworth.t Parmer.t Castro.t Swisher.t Briscoe.t Hall.t Childress.t Hardeman.t Wilbarger.t Balley.t Lamb.t Hale.t Floyd.t Motley.t	° (35 30	° , 100 21	Feet.	Frs. M. 8 0	Dec., 1879	Dec., 1887	Signal Service. Sept., 1896.
		Cottle.† Wichita.†							
515	Henrietta	Clay	33 45	98 09		38	Apr., 1879	Mar., 1883	Signal Service. July to Oct., 1880.
516	Buffalo Springs	Montague.t	33 30	98 14	1,800	0 3	Nov., 1867	Feb., 1868	U.S. post hospital. Jan., 1868.
517 518	Denison Parie	Cook.f Grayson Lawar 		105 31 95 22		7927	July, 1875 July, 1882	Mar., 1883 Sept., 1887	Signal Service. Signal Service. Record much broken. Nov., Dec., 1862; Jan to Mar., and Oct. to Dec., 1863 inclusive; Jan. to Mar., and Oct to Dec., 1884, inclusive; Jan. to Apr., inclusive, and Nov., Dec. 1885; Jan. to May, inclusive, and Nov., Dec., 1886; Jan. to Apr.
519	Clarksville	Rød River	33 35	95 02	; 600	12 5	Sept., 1871	Aug., 1885	inclusive, and Aug., 1887. Allen Martin, J. Anderson. Record broken. Aug., 1874; Aug., 1882 to Sept., 1883, inclusive; Feb.
520 521	Bonham	Fannindo	33 40	96 13 95 46				Dec., 1859 July, 1883	Apr., May, June, 1885. Prof. S. Sias. J. S. Kendall. June, 1884, to Mar.
		Cochran.† Hockley.† Lubbock.†					1019 1000	5 u., 1000	1885, inclusive.
	Silver Falls	Dickens.† Dickens.† King t Knox.† Baylor.† Archer.† Bowie.† Delta.†	33 48	101 08	•	. 1 10	Jan., 1836	Nov., 1887	C. M. Tilford. Mar., 1896.
523	Fort Richardson	Jack	33 15	98 10		. 7 10	Apr., 1868	Apr., 1878	U.S. post hospital. Record broken Apr., 1869; July, 1870, to June 1872, inclusive; May, 1875; Feb.
524	Jacksborough	do	83 15	98 08		. 56	July, 1877	Мау, 1883	1876. Signal Service. Sept. to Nov., 1877 inclusive; July, 1880, and Apr. 1882.
525 526 527 528 529	Decatur Pilot Point Belmont Farm Deloraine Sulphur Springs	Wise Denton Collin Hopkine Franklu.t Titus.t Morris.t Joakum.t Terry.t Lynn.t	33 20 33 20 33 08 33 07 33 12	97 35 96 50 96 31 96 31 96 01 95 29	800 722 550	8 11		Mar., 1881 May, 1881 Dec., 1873	

† No data.

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TEXAS-Continued.

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

- 1	, i			1	-		1		100	ecord.			
0.	Name of station.	County.	Lat- itude		Lon- itude.	Eleva- tion.	Len	gth.	Fro	m	To (i sive	nclu-	Remarks as to observers and miss ing records.
		Garza.† Kent.† Stonewall.†	0		• •	Feet.	Tr s	. M .					
0	Camp Cooper	Haskell.† Throckmorton	31 0	1	99 00	•	. 1	8	Feb.,	1857	Oct.,	1859	U. S. post hospital. Nov., 1837; Ja 1858, to Apr., 1859, inclusive; Au 1859.
1	Fort Belknap	Young	83 0	B	98 40	1,600	5	10	Oct.,	1852	Dec.,	1858	U. S. post hospital. Feb. to Jur 1858, inclusive.
	Grabam	Case.t Camp.t Wood.t Raines.t Rockwell.t	33 0	5	98 8:	3	. 2	3	Jan.,	1881	Apr,	1883	Signal Service. Jan., 1883.
: 1 	Mesquite	Dallas	32 4	0	96 3 1	1 383	4	6	Jan.,	1874	July,	1880	S. D. Lawrence. Record broke Nov., 1874; Mar., 1875; Dec., 18 to May, 1879, inclusive; July, 18 to Nov., 1970 inclusive; July, 18
		do			96 41		3	-					 to Nov., 1879, inclusive. J. T. Coit. Record much broke Sept., 1869, to Mar., 1882, inclusiv Nov., 1882, to Mar., 1883, inclusiv Nov., 1883, to Mar., 1884, inclusiv Nov., 1884, to Apr., 1886, inclusiv Nov., 1885, to Apr., 1886, inclusiv Nov., 1885, to Apr., 1887, inclusiv
	Fort Worth Weatherford	Tarrant Parker		0	97 2 97 4				Dec., Apr.,			, 1853 1887	U.S. post hospital. Signal Service. Record mu- broken. Oct., 1882, to May, 18 inclusive; July to Sept., 1883, clusive; Nov., 1883, to Mar., 18 inclusive; July, Aug., 1884; Oc 1884, to Apr., 1885, inclusive; No 1885, to Apr., 1887, inclusive; No 1886, to Apr., 1887, inclusive.
	Fort Griffin	Palo Pinto.† Stephens.† Sbackelford	32 5	3	99 2:	ı	. 12	4	Aug.	, 1869	Åpr.,	, 1 8 82	U. S. post hospital. Record brok. Oct., Nov., 1869; Dec., 1876; Ja
3	Phantom Hill	Jones Fisher.† Scurry.† Borden.† Dawson.†	32 3	0	99 41	5 2, 300	1	6	Sept.	, 1852	Feb.,	1854	Mar., 1877. U.S. post hospital.
•' 	Gilmer	Gaines.† Upshur	32 4	7	94 41	8 950	11	9	Mar.,	, 1860	Jan.,	1879	J. M. Glasco. Record broken. Ja 1861; July, 1861, to Apr., 1868, clusive; Feb., Mar., 1871; Ju 1×78.
	Jefferson Terrell	Marion Kaufman Van Zandt.†	82 1 32 1		94 20 96 14				July, Mar.,		Apr., May,	1870 1879	U.S. post hospital. Mar., 1870. F. P. Cline. Apr., 1876, to Mar., 18 inclusive.
2	Tyler	Harrisou.† Smith	32 2	5	95 1(3	2	Apr.,	, 18 8 2	Oct.,	1887	Signal Service. Record mu broken. Nov., 1882, to Mar., 18 inclusive; Nov., 1883, to Mar., 18 inclusive; Oct., 1884, to Apr., 18 inclusive; Nov., 1885, to Apr., 18 inclusive; Nov., 1886, to Apr., 18
3	Longview	Gregg	32 8	0	94 3	7	8	0	Арт.,	, 18 82	Oct.,	1887	inclusive. Signal Service. Record mu broken. Nov., 1882, to Mar., 18 inclusive; Sept., 1883, to Mar., 18 inclusive; Oct., 1884, to Apr., 18 inclusive; Nov., 1885, to Apr., 18 inclusive; Nov., 1886, to Apr., 18
4 5	Barnaville Cleburne	Juhnsondo	32 2 32 2		97 0 97 1		. 0		Sept. Apr.	, 1883 , 1581		, 1884 1887	
6	A bilene	Hood ! Erath.t Esatland.t Callahan.t Taylor Nolan.t Mitchell.t Howard.t Martin.t Andrews.t Rusk.t	32 9	16	99 3	7	. 2	3	Oct.,	1885	Dec.	, 1887	Signal Service.

† No data.

Geographical arrangement of stations, giving their latitude, longitude, elevation. name of observer and length of record.

										Rec	cord.			Describe as to alternate and the
No.	Name of station.	County.	La itud		Lon gitud		Eleva- tion.	Len	gth.	From	1—	To (in sive)		Remarks as to observers and miss ing records.
47	Corsicana	Navarro	° 32		° 96	, 24	Feet. 428	Υrs . 11		Oct.,	1874	Dec.,	1887	Signal Service. W. D. McChesney J. W. Smith. Record broken Nov., 1881, to Mar., 1882, inclusive Nov., 1882, to Mar., 1883, inclusive Nov., 1883, to Mar., 1884, inclusive Aug., 1884, to C., 1884, to Apr.
48	Cross Roads	do	30	33	97	46	672	0	9	Nov.,	1859	Nov.,	1860	1×86, inclusive ; Oct., 1886. F. S. Wade. Jan., 1860 ; July to
19	Fort Graham	Hill. Somervell. † Comanche. †	31		97		900	3	6	Mar.,		Aug.,		Sept., 1860, inclusive. U. S. post hospital.
ю	Larissa	Bosque.† Cherokee	32	01	9 5	19	755	0	6	Aug.,	1858	Dec.,	1859	F. L. Yoakum. Record muc broken. Sept. to Dec., 1858, in clusive; Feb. to May, inclusive
51	Palestine				95	35	480	6	8	Oct.,	1869	Dec.,	1887	July, Aug., and Oct., 1859. Signal Service. N. S. Brooks. Red ord much broken. June to Sept. inclusive. and Nov., 1870; Jan. 1871, to Jan., 1882, inclusive; July 1885.
52	{ El Paso } { Fort Bliss }	El Paso {	31 31		106 108	38) 305	3, 830	25	9	Aug.,	1850	Dec.,	1887	Signal Service and U. S. post hor pital. Record much broken Sept., 1851, to June, 1854, inclu sive; Mar., May, 1855; Apr. an Dec., 1857; Jan., May, Oct., 1860 Jan., 1861, to Nov., 1865, inclusive Mar., May to Aug., 1866, inclu- sive; Apr., 1868, to Mar., 1869, in clusive; Feb., Apr., 1870; Aug to Oct., 1870, inclusive; Jan., 1877 to June, 1878, inclusive.
53	Camp Concordia	do	31	46	106	21	8, 600	0	10	Apr.,	1868	Mar.,	1869	U.S. post hospital. May and Oct
54	Fort Quitman	do Reeves. †	31	10	105	40	3, 710	3		Jan.,				1868. U. S. post hospital. Record broke Nov., 1860; Mar., 1871; June, 187 to May, 1873, inclusive.
55		Tom Greene	!		Ι.		2, 160	15		Aug.,				tal. Jan., 1877; Mar., 1886; Mar 1887.
56 57 58 59 50	Fort Chadbourne . Content Camp Colorado	Midland Runnels do Coleman do Brown. †	31 29 31	40 55	99			0 3	0 7 7 11 10	Nov., May, Feb., Jan., July,	1852 1873 1857	Nov., Dec., Aug., Dec., Aug.,	1860 1873 1860	J. C. Rathburn. May, 1887. U. S. post hospital. July, 1855. F. Sinpson. U. S. post hospital. Jan., 1858. Signal Service. July to Oct., 188 inclusive.
		Hamilton. † Freestone. † Shelby. † Nacogdoches. †												
61	W 800	McLengan	31	35	97	08		6	8	Mar.,	1867	Oct.,	1887	 Signal Service. Dr. E. Merril Record much broken. May, Oct 1867; May, 1869, to Apr., 1874, in clusive: Doc., 1875, to Mar., 188 inclusive: Nov., 1882, to Mar 1883, inclusive: Nov., 1883, inclusive Mar., 1884, to Apr., 1885, inclusive Nov., 1885, to Apr., 1885, inclusive Nov., 1885, to Apr., 1887, inclusive
62 63	Gatesville Fort Gates	Limestone. † Coryell San Augustine. † Leon. † Sabine. † Houston. † Goncho. † McCulloch †	31 31	45 26		35 49	1, 200	0	2 6	Apr., July,	1879 1851	May, Dec.,	1879 1851	Y. S. Jenkins.
64	Fort Stockton	San Saba, † Lampasas, † Falls † Angelina, † Trinity, † Pecos.	. 30	20	102	52	4, 950	17	0	Oct.,	1859	June	, 1886	
	1		1				, 					1		ice. Record broken. Jan., Fel 1860; Jan., 1861, to Dec., 1869, i clusive; Feb. to June, 1870, i clusive; Dec., 1885; Jan., 1886.

† No data.

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Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

				-	-			Record.		Barranha an Alashara
No	Name of station.	County.	Lat- iuude.	Lon- gitude.	Eleva- tion.	Lengtl	ь. ;	From-	To (incl sive)-	
565	Fort Davis	Presidio	° / 30 36	o / 103 36	Feet. 4, 700	Frs. 3		Jan., 18 55	Dec., 18	 tal. Record broken. Apr., 1857; Jan., 1861, to May, 1869, to clusive; Feb., July, and Dec., 1870; Jan., Mar., 1871; May, 1871, to May, 1872; inclusive; July, Nov., 1873; Jan. to Sept., 1874, inclusive; Nov., 1872, teb., 1875, to Aug., 1877, inclusive; Sept., Nov.,
568	Belton	Bell	31 05	97 25		2 1	D	Apr., 1882	Oct., 1	Sept., 1882, to Mar., 1883, inclu sive; Oct., 1883, to Mar., 1884, in clusive; Aug., 1894; Oct., 1884, ta
567	Неагие)))	30 50	96 25		3		Apr.,* 1882	Oct 18	 kpr., 1886, inclusive; Nov., 1886, 100, 1886, 100, 1886, 100, 1887, 100, 1888, 100, 1887, 100, 1888, 100, 1883, 100, 1883, 100, 1883, 100, 1884, 100, 1884, 100, 1885, 100, 1885, 100, 1885, 100, 1885, 100, 1885, 100, 1885, 100, 1885, 100, 1885, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1886, 100, 1887, 100, 1887, 100, 1886, 1886,
568	Burkeville	Jasper. † Newton Polk. † Madison. †	31 00	93 38		0 2	3	Feb., 1861	Apr., 18	61 Dr. N. P. West.
69	Rouston	Milam. † Crockett	31 25	95 25		3 3	3 	Apr., 1882	Oct., 18	87 Signal Service. Record b roken Nov., 1882, to Mar., 1883, inclu sive; Nov., 1883, to Mar., 1884, in clusive; Nov., 1884, to Apr., 1885 inclusive; Nov., 1885, to Apr. 1886, inclusive; Nov., 1885, to Apr.
570 571 572	Fort Terrett	do do Menard Burnet, t	30 23	101 48 100 10 100 06	1, 320	1 8)	July, 1856 Apr., 1852 Apr., 1852	Dec., 18	Apr., 1887, inclusive. 60 U. S. post hospital.
73	College Station	Tyler. † Brazos	31 39	96 16		0 10	,	May, 1882	Apr., 18	S3 C. C. Georgeson. Sept., 1882; Jan. 1883.
74	{Mason} {Fort Mason}	Mason {	30 45 30 48	99 05) 99 15)	1,2001	•		Apr., 1852		82 Signal Service. U. S. post hospital Record broken. Dec., 1853, t Feb., 1856, inclusive; Jan. to Dec. 1859, inclusive; Mar., June, July Oct., Nov., 1860; Jan., 1861, t May, 1877, inclusive.
575	Fort Croghan Huntsville	Llano Walker,	30 40 30 45	98 21 95 80	1, 100		3) 	June, 1849 Jan., 1859	Aug., 18 Oct., 18	53 U.S. post hospital.
577	Austin	San Jacinto. f Williamson. f Grimes. f Kimble. f Burleson. f Travis	30 17	97 44		31	3	Nov., 18 5 1	Nov., 16	
										Record broken Jan., 1852, ta Feb., 1856, inclusive; Jan., 1857 July, 1867; Sept., 1876; Mar., 1880 Ang., 1882; July, 1883; Apr., July
578	Webberville		30 14	97 34		0	6	Apr., 1859	Mar., 18	 1887. Prof. C. W. Yellowby. Record broken. May to Ang., 1859, in clusive; Oct., Dec., 1859.
579	Blue Branch	Montgomery. † Lee	30 27	97 26			3	Jan., 1869		broken. June to Oct., 1872, in clusive; July, Aug., 1873.
89	Fredericksburgh .	Gillespie Blanco. †	30 12	98 45		51	1	Apr., 1877	Feb., 18	83 Signal Service.

† No data.

RAIN-FALL OF THE PACIFIC COAST AND

TEXAS-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			Lat-	Lon-	Eleva-		Record.		Remarks as to observers and mits
No.	Name of station.	County.	itude.	gitude.	tion.	Length.	From-	To (inclu- sive)—	ing records.
81	Sour Lake	Hardin	o / 30 10	° ' 94 10	Feet.	Yrs. M. 2 9	Apr., 1882	Oct., 1887	Signal Service. Record brokes Nov., 1882, to Mar., 1883, incli- sive; Nov., 1883, to Apr., 1884, is clusive; Nov., 1884, to May, 188 inclusive; Nov., 1885, to Apr., 188 inclusive; Nov., 1885, to Jun 1887, inclusive; Sept., 1887.
82	Washington	Liberty.† Bastrop.1 Washington	30 19	96 15	360	1 11	Feb., 1857	Dec., 1859	B. H. Rucker. Record broke Apr., June, Nov., 1857; Feb.
83 84		do		96 30 96 31	400 542	0 3 2 4	June, 1867 Mar., 1858	Aug., 1867 Mar., 1861	Oct., 1858, inclusive. M. Rutherford. Dr. W. H. Gantt. Record broke May, July, 1858; May, Aug., Dec 1859; Jan., June, July, 1860; Feb
85 86	Chapel Hill Farm	do Hays.t	30 10 30 10	96 20 96 34	542 431	0 5 1 1	Apr., 1866 Apr., 1869	Aug., 1866 May, 1870	1861. Dr. W. H. Gantt. B. Combs. May, 1869.
87	Hempstead	Waller.	30 08	95 58		. 17	Apr., 1882	Sept., 1884	Signal Service. Record broke Nov., 1882, to Mar., 1883, inclusiv
88		Orang		93 40		. 2 3	Apr., 1882	Oct., 1887	Oct., 1883, to Mar., 1884, inclusiv Signal Service. Record broke: July, 1882, to Mar., 1884, inclusiv, Nov., 1883, to Mar., 1884, inclusiv, June, July, 1884, inclusive; Nov., 1884 to Apr., 1886, inclusive; Aug 1886; Nov., 1886, to June, 1887, in clusive.
30	Camp Hudson Fort Martin Scott.	Val Verde Edwards.t		101 10			May, 1858	Dec., 1800	U. S. post hospital. July, 1859.
223458	Camp Verde Round Top Pin Oak Bluff Settlement Flatonia	Kerrdo Fayette do do do Jefferson	30 03 30 00 30 00 29 42	99 05 99 10 96 44 97 09 97 00 97 00 94 04	1, 300 1, 400 180	1 0 4 5 0 1	Jan., 1850 Jan., 1857 Jan., 1859 Jan., 1859 June, 1870 Feb., 1878 Apr., 1882	Mar., 1852 Feb., 1869 Apr., 1861 Dec., 1856 Dec., 1874 Aug., 1884	 U. S. post hospital. U. S. post hospital. Record broke Jan., 1858; Jan., 1861, to Fel 1967, inclusive; Apr., Sept., 186 B. Schumann. Dr. W. H. Ganit. J. Fietsam. July, 1871; Dec., 187 Rev. Frank Miller. Signal Servire. Record broke
		Rarris.†		1		•			Aug., 1882, to Apr., 1883, inclusiv Aug., 1883, to Mar., 1884, inclusiv and July, 1884.
7	New Ulm	Austin Kendall.		96 11 98 40	300	15 4 2 8	July, 1872		C. Runge. Dec., 1884 ; Jan., 1885.
990	Sisterdale Lockbart	Caldwell	29 59 29 55	98 43 97 44	1,000	28 10 04	Jan., 1885 Jan., 1859 July, 1869	Aug., 1887 Dec., 1859 July, 1870	F. Petersen. B. Knapp. L.Woodruff. Record broken. Sep 1869, to Feb., 1876, inclusive; Ap
)1	Luling	do	29 45	`9 7 30	720	29	Apr., 1882	Sept., 1887	May, 1870. Signal Service. Record broke Nov., 1882, to Apr., 1883. inclusiv Nov., 1883. to Mar., 1884. inclusiv July, 1884: Nov., 1884. to Ma 1885. inclusive; Sept., 1885. Apr., 1886. inclusive; Nov., 18
92	New Braunfels?	Comal Bandera.t	29 42	98 15	720	5 1	Jan., 1854	Dec., 1859	to Apr., 1887, inclusive. Prof J. C. Ervendberg. Recc broken. Doc., 1856; Jan., Sep Dec., 1857; Jan. to Apr., 1858, clusive; July, Aug., 1858; Ap 1850.
3	Weimar	Colorado	29 43	96 40		. 3 0	Apr., 1882	July, 1887	Signal Service. Record brok Nov., 1882, to Mar., 1883, inclusiv Nov., 1883, to Mar., 1884, inclusiv Nov., 1884, to Apr., 1826, inclusiv Nov., 1886, to Apr., 1887, inclusiv Nov., 1886, to Apr., 1887, inclusiv
4	Columbus Oakland	do do Gaudaiupe.† Chambons t	29 42 29 35	96 28 97 00	250	04	May, 1874 Apr., 1870	Sept., 1874 Oct., 1872	F. Simpson. Aug., 1874. F. Simpson. Sept., Oct., Dec., 18
67	Gonzales San Antonio	Chambers.t Gonzales Bexar.	29 32 29 30	97 32 98 20	150 600	1 0 20 2	Jan., 1850 Sept., 1849	Dec., 1850 Dec., 1887	Bennett. Signal Service and U. S. post hos tal. Record broken. Nov., 18 to July, 1857, inclusive; Jan., 18 te Dec., 1869, inclusive; Jan. 1873, to Dec., 1876, inclusive, Ju July, 1883; Nov., 1883, to Ap 1884, inclusive; Nov., 1884, Feb., 1885, inclusive.
	Brackettville	Fort Bend.† Kinney	29 20		1	1		1	

† No data.

88

TEXAS-Continued.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			L		Lon		Eleva-			Record.		Remarks as to observers and miss
No.	Name of station.	County.	itu		gitud		tion.	Len	gth.	From-	To (inclu- sive)—	ing records.
309	Fort Clark	Kinney	° 29		o 100	25	Feet. 1,000		. <u>M</u> . 5	Aug., 1852	Ang., 1886	U. S. post hospital. Record br ker July, 1857; Jan., 1860; Jan., 1860 to Apr., 1869, inclusive; Aug 1873, to July, 1874, inclusive; Feb 1878, to Dec., 1885, inclusive; May June, 1876.
10	Fort Lincoln	Uvalde	29	22	99	33	900	1	10	∆pr. , 1850	July, 1852	U. S. post hospital. June to Aug inclusive, Sept. to Dec., 1850, in clusive.
111 512	Uvalde Castroville		29 29	15 25	99 98	45 45	 	64	1 8	Apr., 1877 Aug., 1877	May, 1883 Mar., 1882	Signal Service. Jan., 1882. Signal Service.
13	Columbia	Wharton.t Brazoria	29		95				10	June, 1984		Signal Service. Record broken Oct., 1844, to Apr., 1845, inclusive Nov., 1885, to Apr., 1886, inclusive Nov., 1886, to Apr., 1887, inclusive
614 615 616	Cedar Grove Clear Creek Galveston	Galveston	29	32	95 95 94	06	60 25 30	2 0 19	1 9 1	Mar., 1867 Mar., 1871 Jan., 1868	Dec., 1871	J. B. Bostwick. Aug., Sept. 1867. George N. Leoni. July, 1871. U. 8. post hospital. D. A. Beazley Signal Service. C. A. Smith. R Reeder, E. O. C. McInerney, May 1870, to Mar., 1871, inclusive.
17	Cuero		29	10	97	10		2	3	▲pr. , 1883	June, 1887	Signal Service. Record broken Nov., 1883, to Mar., 1884, inclusive Oct., 1884, to Apr., 1885, inclusive Nov., 1885, to Apr., 1896, inclusive
18	Yorktown	do Matagorda.†	29	03	97	25		3	5	Jan. , 1869	Sept., 1372	Nov., 1886, to Apr., 1887, inclusive Dr. A. C. White. Feb., Mar., 1869 Apr., 1871; Aug., 1872.
19	Helena	A tascosa.† Karnes Jackson.†	28		97		60 0	0	2	Jan., 1857		J. C. Brightman. Feb., 1857.
20 21	Eagle Pass Fort Duncan	Maverick 				80 30	1, 460	5 16	11 4	July, 1877 Oct., 1849	May, 1883 Oct., 1879	Signal Service. U. S. post hospital. Record broken May, 1859, to July, 1860, inclusive Jan., 1861, to May, 1873, inclusive
22	Fort Inge	Zavalla	29	10	99	50	845	7	4	Nov., 1849	Dec., 1860	Jan., 1879. U. S. post hospital. Jan., 1851; May 1855, to Dec., 1858, inclusive; Oct. 1860.
23 24	Victoria Goliad	Victoria Goliad	28 28	50 35		58 80	94 50	0 1	4 1	May, 1871 Jan., 1858	Aug., 1871 Oct., 1868	L. D. Heaton. J. C. Brightman. Jan., 1859, to Sept. 1868, inclusive.
25	Fort Merrill	Live Oak	28	10	96	00	150	3	3	Apr., 1851	Nov., 1855	U. S. post hospital. Jan., 1852, to May, 1852, inclusive; Aug., 1852, to July, 1883, inclusive.
26	Fort Ewell	McMullen.t	1	10	99	00	200	2	0	Oct., 1852	Sept., 1854	U. S. post hospital.
27 28	Indianola	Calhoundo Refugio.t	28	82	96 96	37 81		1 14	8 3	Jan., 1869 May, 1872	Aug., 1870 July, 1886	L. D. Heaton. Signal Service.
29	{Fort McIntosh	{Webb		-		48 26	806 401	22	7	July, 1849	Dec., 1887	Signal Service and U.S. post hospi tal. Record broken. Jan., 18:9, it Aug., 1869, inclusive; Mayto July 1870, inclusive; Jan., 1875, ito I/cc. 1876, inclusive; Sept., 1881; Jan. Feb., 1883; Apr., 1883, to I/cc. 1885, inclusive.
530	Aransas Canal	Aransas San Patrico.† Encinal.† Duval.†	27	47	97	08	15	0	1	Nov., 1860		F. Kaler.
31	Corpus Christi	Neuces	27	47	97	27	20	4	5	Nov., 1845	Dec., 1887	Signal Service and U. S. post hospi tal. Record broken. Oct., 1846, t. July, 1849, inclusive; Jan., 1850, t. Mar., 1851, inclusive; Jan., 1852, t. Apr., 1854, inclusive; Jan., 1857, t. July, 1855, inclusive; Apr., 1856, t. May, 1883, inclusive; Sept., 1885 Nov., 1885, to Jan., 1887, inclusive
132	y Ringgold Barracka) Rio Grande City	}Starr	{26 {26		98 98	45 48	\$ 521	26	9	Sept., 1849	Dec., 1887	Signal Service and U. S. post hesp tal. June, 1855; Jan., 1859, to June 1860, inclusive; Jan., 1861, to June 1870, inclusive; Aug., 1874; (Oct. 1882, to Feb., 1883, inclusive.
133	Hidalgo	Hidalgo	26 (25	05 50		10 37	,	2	5	FeB., 1879	Jan., 1882	Signal Service. Feb. to Aug., 1881 inclusive.
34	{Fort Brown {Brownsville	{Сашегоп	25	50 53		37 26	} 50	28	0	Jan., 1850	Dec., 1887	Signal Service and U. S. post hospi tal. Record broken. Jan., 1859, ta Apr., 1869, inclusive; Jan., 1861, ta July, 1869, inclusive.

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January. February. March. Name and number of station. Aver age. Aver A ver Maximum. Minimum. Maximum. Minimum. Maximum. Minimum. age. age. Ine Ins. Yrs. Ins. Yrs. '80 '83 Ins Yrs. Ins. Ins. Ins Yrs. Ine. Yrs Ins Yrs. 514, Fort Elliott 0.52 1.41 0.30 3.44 0. 81 0.62 1886 (T) 0.07 1.44 2.23 1888 0.05 1880 1880 0. 61 1. 80 1.86 2.60 1885 1880 (T) 0.98 Hunrietta Buffalo Springs..... 1.24 2.73 1882 1883 1883 1881 516, Buffalo Springs. 517, Denison. 518, Parist. 519, Clarksville. 520, Bonhamt. 521, Honey Grove. 522, Silver Falls. 523, Fort Richardson. 524, Jackaborough. 525, Decatur. 526, Pilot Point. 527, Bolmont Farm. 528, Deloraine. 2.09 5.00 1876 0. 50 1877 6, 89 1877 0.45 1879 2.49 5.47 1876 0.31 1879 5. 39 12.25 1875 1.25 1880 5.49 10. 38 1884 0.50 1872 5.08 15. 50 1875 1.00 1873 • • • • 0. 70 6. 80 1. 07 2.50 (T) 0.66 0.73 1886 1869 1882 (T) T 188 1.07 Ť 1880 4.58 4.04 5.24 5.96 0. Ó0 1870 0.97 2.00 1.59 1877 1882 ò. 13 1870 3.48 2.24 1876 0.00 1878 0.08 0.85 0.14 0.50 1.70 0.00 0.15 0.23 (T) 1.00 1.50 1.89 2.78 0.00 0.66 (T) 1.23 1.14 0.72 1883 1880 1881 1878 1878 1883 1879 1.64 0.33 2.56 1.90 1882 1881 1874 1882 1881 1881 1873 1878 1879 1878 2.45 0.75 1.50 2.72 1880 1877 1878 8.40 ò. 50 1. 50 3.97 1.77 1874 1872 527, Belmont Farm 528, Deloraine 529, Sulpbur Springst 530, Camp Cooper 531, Fort Belknap 533, Mesquite 534, Dallast 535, Fort Worth 536, Weatherfordi 537, Fort Griffin 538, Phantom Hill 539, Gilmer 18, 11 1872 10 50 1873 4.01 1872 1873 1.17 2.00 1872 3.70 1873 3.01 0.06 0. 00 0. 43 0. 31 '55 '57 2. 29 2. 09 5. 26 4.31 3.27 10.75 1850 1883 1875 2.57 2.10 9.50 0.47 1, 82 1, 48 2.88 1858 1857 0 30 1856 1855 0.10 1.30 3.86 2.16 7.30 1882 1874 1881 1877 1882 1880 1.21 1.18 2.61 1874 1874 1882 1880 6.12 1.56 2.70 1851 0.60 1850 4.54 10. 80 1851 0.30 1850 3.61 5. 20 1852 1.20 1850 0.75 1878 1.05 2.01 1680 2.33 1882 1870 1.43 1871 (T) 0.04 1878 1.14 0.00 0.28 3.43 0. 52 1853 1875 0.00 1854 1879 0.80 3.21 1.30 1853 1974 0.30 0.64 1×54 1870 0.54 3.44 4. 95 5. 81 1874 1860 1.00 1.50 8.60! 3.30 541, Torrell 542, Tylert. 543, Longviewt 544, Barnesville 545, Cleburne 546, Abilene 546, Abilene 547 (Orrelene 0.12 11.37 22. 121 1876 0. 62 1879 *.* 4.38 2.15 0.91 2.57 3, 42 1.12 1.90 0.09 2.94 0.43 0.06 0.14 1887 1887 1887 4.12 1.21 6.84 6. 25 2. 47 4. 81 1885 1880 1879 1887 1884 1.01 1885 1884 3.18 0.32 546 547, 1887 1877 1. 25 2. 79 0. 89 4. 55 1876 1879 0.03 0.11 6.72 0.61 0.52 1896 1877 1887 547, Corsicana 548, Cross Roads..... 1887 5.11 5.24 549, Fort Graham..... 1.42 7.75 2.82 0.64 3.61 8.75 1.83 1853 1852 6.80 1851 1853 1852 1, 35 1850 4.01 5.55 1870 5.35 2.09 0.50 1870 (') 7.77 1885 0.52 1887 3.07 1883 0.52 2.88 1888 552, Fort Bliss and El Paso..... 0.32 1. 57 1879 0.00 (1) 0.43 1856 0.00 (1) 0.29 1883 April. May. June. Name and number of station. Aver Aver Aver Maximum. Maximum. Minimum. Minimum. Maximum. Minimum. age. age. age. Ins. 4.67 4.87 **Y**78. 1885 1881 Yrs. 1882 1880 Ins. 0.16 0.80 *Yrs.* 1≻86 Yrs. 1881 Yrs Ins Ins. I'ra. Ins 2.14 2.86 0.23 1.51 8.79 8.26 9.83 5.24 1885 1880 5.32 2.64 1880 1882 7.48 0.10 8. 30 1879 0.88 1881 4.65 5.98 6.71 3.95 8.08 2.02 2.79 6.56 17.00 1.52 2.52 0.75 Denison..... 1877 1.95 1.25 1880 1883 8. 03 1881 1879 4. 89 8. 83 5. 20 10.00 1880 0.00 2.09 0.25 1881 517, Denison 518, Paris. 519, Clarksville 1884 8.80 19.50 1884 1885 6.01 17.75 1881 1897 1874 1.25 1881 1873 1880 1873 1881 519, Clarksville 520, Bonhamt 521, Honey Grove 522, Silver Falls 523, Fort Richardson 8.50 1.90 2.96 2.00 2.21 1.06 5.22 2.97 6.80 4.25 9.88 6.09 5.82 5.01 34.85 7.70 5.85 2.13 3.10 8.37 4.11 2.17 8.67 3.73 4.90 0.01 0.70 1.29 2.75 0.22 3.81 8.50 8.40 1.87 0.10 0.68 0.96 8, 60 1884 1884 1885 1885 1887 3.65 1.02 3.29 4.10 3.40 3.50 5.18 4.50 1887 1868 1868 0.98 0.31 0.04 1.93 1887 1888 1 07 1880 322, Sliver Falls 523, Fort Richardson 524, Jacksborough 525, Decatur 526, Pilot Point. 527, Belmont Farm 528, Deloraine 529, Sulphur Springst 530, Camp Cooper 531, Fort Belknap 532, Graham 533, Mesquite 534, Dallas. 535, Fort Worth 536, Weatherford 537, Fort Griffin 530, Gamer 530, Gilmer 540, Jerrell 1.83 7.40 3.26 3.41 8.05 1.07 9.10 10.91 7.80 6.22 17.75 1868 1879 1869 1878 1878 1873 1870 1878 1880 1879 1879 1878 1878 1873 1873 0.01 0.05 1877 1881 1878 1881 1880 1873 1873 1879 1874 1880 1881 1879 1878 0.04 1879 17.00 1.00 3.00 2.00 1874 1872 7.70 7.20 1873 1872 6.00 1872 2.46 4.21 2.86 3.96 4.77 6.60 2.50 6.19 2.95 5.25 8.25 9.27 1857 2.42 1859 2.74 1857 1859 8. 10 2.40 2.03 4.19 6.16 0. 14 0. 37 2. 12 1. 69 0. 73 2.91 2.76 2.12 0.02 4.27 1853 1857 8.33 2.19 6.00 9.69 7.30 1. 39 1. 87 1. 62 1. 02 0. 22 1853 1857 8.98 2.03 1854 1881 1856 1881 1876 1884 1851 1882 1874 1883 1852 1881 1875 1882 1882 1876 1886 1852 1876 1885 1850 4. 19 1875 5.55 6.61 1884 1851 3.77 3.73 1882 1851 1.50 1884 1882 8. 29 3. 00 2. 85 4. 74 27. 94 6. 42 1884 1880 0.00 84 78 1884 1878 0.68 1882 1871 1.89 3.71 1883 1881 12.16 1879 9.83 2.90 3.15 7.21 1870 1.07 1873 1874 9.71 1873 0.43 1860 10.41 1873 | 1.11 19.751 1878 7.12 6.62 8.50 1879 4.75 1879 3.50 1876 6. 13 2. 71 5.79 1884 2.12 1882 17.47 1884 1886 2.98 6.78 1883 0.09 1882 3.01 1.09 5.09 0.38 1884 0.06 1882 6. 02 1887 0.00 1886 5.86 1885 0.02 1882 11.13 6.43 9. 01 1885 1885 2.34 1887 4.84 2.14 5.22 0.00 1886 10.09 1884 2.17 1886 1887 1879 1.67 1880 1882 8.95 12.58 1887 33 1886 3.38 5.42 1886 8 26 1887 11. 50 1854 0.00 '83 '86 2.74 1878 0. 60 1882 0.20 1853 3. 35 7.88 1851 2.00 2.90 1853 2.57 1850 2.71 4.83 1850 0. 32 1851 75 0.30 5. 8C 0. 21 1884 7.30 1884 0.74 1887 17.25 1886 6.33 2.63 1883 0.83 1882 2,80 167 180 1884 (1) 1.83 1881 (1) 1885 0.00

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

† No data,

(*) Generally.

(1) Frequently.

(T) Trace of rain-fall.

Rain fall in inches, showing the greatest, least, and average values for each month and for the year.

			July.					August).			S	eptemb	er.	
Name and number of station.	Aver- age.	Mari	mum.j	Mini	imum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.
	Ins.	Ins.	Fre.	Ins.	Trs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Frs.	Ins.	Yrs.
14. Fort Elliott		5.65	1882	0. 92	1887	3.62	6, 56	1883	0.49	1881	2.00	4.97	1883	0.54	188
15, Henrietta	2.24	4.51	1882	0.36	1879	3.98	6.24	1879	0.94	1881	2.45	4.32	1882	0. 60	187
16, Buffalo Springs t	· [. 					 . .					
17. Denison	. 5, 00	10.41	1875	0.74	1877	3.23	9, 20	1875	0.26	1881	3.80	9 04	1882	0.24	187
18, Paris	2.38	5.15	18s2	0.4H	1884	2.40	5.79	1883	1.04	1886	3.02	6,36	1886	0. 10	188
19, Clarksville	5.21	15.50	1875	0. 12	1881	2.26	5.50	1875	0. 00	608 1	3.14	10. 00	1874	0.12	187
20, Bonhamt		····											• • • • • • • •		
21, Honey Grove		· · · · ·	•••••••					••••	·				••••	1	•••
22, Silver Falls		3.06	1886	1.89	1887	2.90	3.43	1886	2.37	1887	3.38	5.58	1886	1. 19	18
23, Fort Richardson		3. 28	1878	0.37	1874	2.48	7.85	1868	0 00	1874	3.22	8.16	1874	1.24	18
24, Jacksborough	4.65	10.51	1882	0.12	1881	2. 25	3.90	1882	0.58	1881		13.95	1880	1.21	18
25, Decatur	. 5. 32	15.23	1862	0.70	1879	1.60	4.63	1882	0.04	1881	4.86	9 13 7.63	18-0	0.37	18
26, Pilot Point 27. Belmont Farm		6.00	1878	0.03	1879	1.12	2.14	1879	0.16	1878	3.16		1880 1874	0.03 2.25	18 18
		15,50	1873 1872	0.15	1879 1873	1.62	7.05	1875 1873	1.05	1877 1872	3.36 0.88	10.00	1871	0.20	18
	6.00	1.70	18/2	1.60	18/3	0.11	0. 50	18/3	0.00	16/2	0.75	2. 75	10/1	0.20	10
29, Sulphur Springs 30, Camp Cooper		9.30	1857	8.20	1859			•••••		••••	1.64	2.50	1857	0 79	18
31. Fort Belknap		6.42	1857	0.00	1854	9.35 2.97	6.85	1856	0.12	1853	2.77	10.20	1856	0.00	18
32. Graham		9.56	1882	0.93	1881	5.16	8,65	1850	1.66	1881	6.58	9.33	1882	8.83	18
38. Meaquite		8 37	1880	1 66	1874	5.70	0.05 12.41	1875	1.50	1877	3 55	5.67	1874	0.37	18
34. Dallas	3.05	6.96	1882	0.00	1884	3.44	7.98	1887	1.00	1869	2.53	6.29	1886	0.00	18
35, Fort Worth	2.38	5.72	1853	0.16	1851	2.69	6.41	1852	0.06	1851	2.06	5. 60	185 :	0.06	18
36. Weatherford	2.45	7.08	1882	0.74	1887	2.83	3. 82	1887	1.47	1886	1.94	3. 83	1886	0.29	18
37. Fort Griffin	2.69	7.84	1878	0.36	1871	1.14	4.40	1870	0.25	1881	2.73	5.05	1870	0.15	18
38, Phantom Hill	1.15		1010	0.00		0.03	1. 10	1010		1001	3.55	4.82	1852	0.28	18
39. Gilmer	3. 61	9.33	1870	0.48	1860	2.51	6.01	1875	0.33	1877	2.83	6.65	1874	0.13	18
10. Jefferson						0.82					1.00				
1. Terrell	. 1.00					4.00					0.28				
12. Tyler	2.46	6. 61	1882	0.00	1884	2 98	9.36	1887	0.26	1883	3.12	4.75	1886	1.75	18
13. Longview	1.94	5.62	1885	0. 03	1884	0.82	2, 31	1887	0.08	1883	3.47	6.08	1885	0.03	18
14, Barnesville		ľ	. .	. 							1.00				
15, Cleburne	. 1.65	3.17	1887	0.32	1884	3.90	16.30	1887	0.51	1885	2. 33	4.20	1886	0.00	18
46, Abilene	. 2.10	2.71	1887	1.48	1886	1.56	2.03	1886	1. 10	1887	8.40	4.17	1886	2.64	18
7, Corsicana		3.82	1878	0.00	1884	2.62	11.70	1882	0. 02	1883	2.30	3.23	1878	0.04	18
48, Cross Roads		!		1						• • • • • • • • •	1.52		••••••		••••
49, Fort Graham		4.90	185 2	0.11	1851	2.06	3.95	1850	0.21	1851	0.80	1. 53	1852	0.26	18
50, Larissa	· · <u>: • : :</u> ·	· . • • ·	••••		••••••••	0.10		••••	`•••••	•••••••	1.31	·	••••••	····	••••
51, Palestine	. 2.83	6 52	1882	0.06	1884	2.44	5.32	1882	0.30	1883	3.70	7.12	1886	1.99	18
52. Fort Bliss and El Paso	1.69	8.18	1881	0.00	1876	2.05	5.14	1869	0.00	1872	1.88	7.22	18 85	0.00	્ય

		Octobe	r.	,	Novemb	er.	1	Decemb	ær.		Year.	
Name and number of station.	Aver- age.	Maximum	Minimum.	Aver age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Mean.	Maximum.	Minimum.
-	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Trs.	Ins.	Ins. Tro.	Ins. Trs.	Ins.	Ins. Yrs.	Ins. Trs.
514, Fort Elliott 515, Henrietta		5.54 1884 2.38 1881	0.60 1885	0.54	2.14 1884 2.13 1881	0.04 1+83 0.34 1879	0.81	3.05 1884	0.08 1887 0.06 1882	25.14	37.07 1885 29.25 1882	16.16 1881 22.73 1881
516, Buffalo Springs 517, Denison	3.67	10.74 1877	0.15 1875	0.70	5.01 1877	0.62 1878	0.40	5.07 1875	0.82 1≥80		52.64 1877	20.45 1879
518, Paris	2.84	5. +0 1882	0.82 1886				1					
519, Clarksville 520, Bonham		10. 13 1883	0.05 1874	3.41	13.00 1873	0.95 1883	4.71	13. 30 1873	0.39 1871	56.62	109.78 1873	46.56 1872
521, Honey Grove 522, Silver Falls	1.92 2.77	3. 44 1886	2.10 1887	0.60	0.31 1887	0.03 1886	4.30 (T)			;		
523, Fort Richardson	, 1.78	9.86 1877	0.10 1869	1.82	3.00 1868	0.58 1875	2.48	4.76 1874		26.26	33.75 1868	26.25 1874
524, Jacksborough 525, Decatur	1.75	4.97 18+0 4.16 1881	0.85 1875 0.50 1878	1.99 2.48	4.40 1878	0.45 1879	1.61 1.42	3. 29 1877 ; 2. 47 1881	0.16 1882 0.60 1879		34. 01 1881 27. 90 1880	19.87 1579
526, Pilot Point 527, Belmont Farm.		10.42 1877 12.00 1877	0.09 1878	2.22	6.33 1877	0.14 1879 0.80 1879		1.30 1878 13.50 1873	0.13 1879		727.90 1880 62.99 1873	6. 30. 1879 42. 13 1874
528, Deloraine 529, Sulphur Springs		4.46 1871	1.50 1873	1.02 2.41	2.60 1871		0. 53	1.40 1873	0.20 1871	20. 08	•••••••••••••••	
530, Camp Cooper	3.38	6.75 1857	0.01 1859				8.85		0. 05 '52 '54		41.61 1857	
531, Fort Belknap 532, Graham	1.98	5. 90 1852 2. 40 1881	0.59 1854 1.55 1882	2.65 1.89	7.30 1857 2.56 1882	0.05 1854 1.21 1881	1.10	4.56 1857 2.31 1881	0.40 1882	35. 70	43. 01 1882	25. 11 1881
533, Mesquite 534, Dalla	1.94	5.50 1877 7.32 1882	0.00 1874	3. 81	5.75 1876	1.67 1875	4. 21	8.18 1874	1.00 1879	51.47		
535, Fort Worth 536, Weatherford	3.29	5.40 1852 4.11 1887	2. 24 '50 '51 0. 21 1886	4.14	4.92 1851	2.60 1852	2.00	5.10 1850	0.10 1852	40.90	43. 36 1852	37.95 1850
537, Fort Griffin	1.95	7.84 1877	0.56 1878	1.60		0.30 1879	2. 11	4.86 1877	0.51 1879	23.63		12.03 1873
538, Phantom Hill	3.27	4. 81 1852	2.01 1853 0.24 1874	1.34 3.52		0.23 1853 0.39 1878	0.94 3.76	1.87 1853 6.79 1874	0.00 1852 0.49 1871	18.22 42.20		31. 89 1877
540, Jefferson 541, Terrell				3.97			3.09					
542, Tyler 543, Longview		7.16 1882	0.10 1886 2.09 1882									
544, Barnesville 545, Cleburne	7.25	6. 50 1883	0.37 1+86	0.04	1	1.00 1883	5. 75		0.05 1886	35.28	41 96 1007	20.78 1886
546, Abilene	3.21	4.77 1887	2.24 1886	1.70 0.58	0.87 1887	0. 23 1885	2.45 0.85	5.75 1883 1.58 1887	(T) 1886	21.49	24. 63 1887	19.14 1866
547, Corsicana 548, Cross Roads	1. 20	6.81 1877	0.07 1874	3.71	6.21 1877 3.85 1860	2,40 1875 0.45 1859	3.26 3.40	9. 52 1874	0.24 1886	37.28		
549, Fort Graham 550. Larissa		5. 25 1851	3.69 1852	4.73	7.40 1851	1.09 1850	5.25	11.03 1850	0.31 1852	40. 58	- 	
551, Palestine 552, F. Bliss & El Paso	3. 79	9.96 1882 5.15 1884	1.47 1885 0.00 (')	4.00		1.42 1886 0.00 (¹)	4.01	6.94 1884 2.07 1884	0.45 1886 0.00 (²)	42.47 9.84	21. 81 1856	2. 84 1867

t No data.

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(1) Frequently.

(*) Generally.

(T) Trace of rain-fall.

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January. February. March. Name and number of station. Aver Атег Aver Maximum Minimum. Maximum. Minimum. Maximum. Minimum. age. age. age. Ins Ine. Yrs. Ine Yrs. Ins Ine Yrs. Ins. Trs. Ins Ins. Vrs. Ine. Yrs. 553, Camp Concordia 554, Fort Quitman 555, Fort Concho 556, Midland 557, Fort Chalbourne 558, Content. 559, Camp Colorado 560, Coleman City 561, Waco. 0.90 0.19 0.80 1. 20 0. 52 0.07 1.20 3.38 0.33 2.50 0.30 1874 0.13 1859 1859 1871 1859 0.00 0.12 0.00 0.05 1960 1875 0.00 0.01 4.03 **'78** '87 1882 0.00 (T) 0.23 '79 '83 0.98 1885 0.76 1.60 1873 0.22 0.85 2.90 0.63 0.00 1887 1854 1886 1855 1886 1856 1887 1860 0.01 1888 0.16 1887 0.43 0.94 1. 57 1858 1. 37 1859 2. 27 1.63 0.75 1.83 2.15 3.90 3.00 57 '59 1.75 0.92 1860 1860 0.00 1858 0.00 1857 0.00 1857 1879 1868 560. Coleman City 561. Waco 562. Gatesvillet 563. Fort Gatest 564. Fort Stockton 565. Fort Davis 566. Gatest 566. Fort Davis 566. Hearnet 568. Beltont 568. Hearnet 568. Houstont 570. Fort Lancaster 571. Fort Terrett 1.04 2, 36 5, 10 1885 0.09 1883 1869 1.52 1882 1869 0.26 1.72 RQ 1880 1868 0.03 1878 1869 1869 10. 60 0. 29 1879 1858 0.00 0.00 0.00 0.76 3.00 0.00 8 2.63 1.86 0.86 0.42 7.78 2.32 1885 1856 0. 52 71 '80 1873 0. 50 '59 '60 0.43 1856 (4) 1.45 4.35 5.95 **. . . .** · • • • • • • • • • • • • • • 0.41 1.54 1.57 1.30 0.35 2.95 1858 0.15 1857 1.15 1858 0.00 1859 0.72 1858 0.00 1859 570, Fort Lancaster 571, Fort Terrett. 572, Fort McKavett. 573, College Station 574, Fort Mason and Mason 575, Fort Croghan. 576, Hunteville. 577 Austin. 1.15 0. 08 1855 2.67 1854 5.56 1858 0.92 '56 '80 0.01 1856 0.06 1859 1.20 3.60 1.90 1.64 4.61 89 0.20 0.90 0.54 1860 1850 1.17 3.74 1882 0.37 1881 2.93 1.16 1.95 9.18 1858 80 1857 1853 1853 1852 3.07 1.51 1.97 1.00 2.20 1850 4.72 3.58 1853 3.05 8.27 2.25 2. 31 18-6 18:9 2.20 1886 1859 4.51 1885 2.35 1859 576, Huntsville 577, Austin 578, Webberville 578, Webberville 579, Blue Branch 580, Fredericksburgh 581, Sour Laket 582, Washington 583, Lone Pointt 584, Union Hill 585, Changel Hillt 3.04 3. 24 2. 62 2.79 8.11 1882 0. 01 1867 1884 0.10 1873 8.90 1882 0.80 1857 3.00 9.32 3.54 1870 8.97 3.20 5. 80 2. 27 1871 4.40 1869 0.90 2.30 1872 0.30 1870 3.41 1869 1.20 1.02 1882 0.08 1879 1.65 1882 0. 59 1881 1.46 1879 0.79 1878 1859 1857 4.14 4.18 1859 4.10 1858 0.76 1. 52 1857 0.00 1.40 2.79 1859 0.03 583, Lone Point. 584, Union Hill 585, Chapel Hillt 586, Farm 587, Hempsteadl 588, Oranget 589, Camp Hudson 590, Fort Martin Scott 591, Camp Verde 5.87 7.43 1861 4. 31 1859 2. 40 4.25 1860 0. 55 1869 2. 63 6.42 1858 0. 81 1861 2.75 1.20 0.01 0. 03 0. 69 0. 00 0. 23 5. 14 3. 50 0.93 1.07 2.90 0.13 2.98 1.41 1859 0.11 5.82 2.47 0. 20 0.76 1860 0.02 1859 1860 0. 60 1859 1860 0.80 1.19 1850 1869 0.60 1852 7 '86 1851 1850 19 12. 40 7. 07 1852 1.57 1850 1860 1857 1867 1857 '57 1 A pril. May. June. Name and uumber of station. A VAL. A ver-A ver-Minimum. Maximum. Minimum. Maximum. Minimum. Maximum. age. age. age. Yrs. Γrs. **Γrs**. Ins. Yrs. Ins Ins. Ins. Γrs. Ins. Ins. Ins Ins. Ins. Trs. 553, Camp Concordia 554, Fort Quitman 556, Fort Concho 556, Midland 557, Fort Chadbourne 558, Content 559, Content 559, Content 560, Coleman City 561, Waco 562, Gateeville 563, Fort Gatest 564, Fort Stockton 565, Fort Davis 566, Belton 553. Camp Concordia 0.00 1.57 2.20 0.10 0.85 4.60 1.11 3.89 1859 1884 1887 0.00 0.00 0.29 0.20 0.14 1.27 0.70 1.53 0.26 9.83 4.59 6.40 1.51 5.48 1873 1860 0.15 2.83 1871 1859 0. 04 0. 10 1871 0 00 '73 '83 1886 2.83 3.41 3.39 1884 0.00 '76 '78 1873 1981 1886 46 55 1887 1.42 1858 6.48 1853 1859 1856 0.01 1860 1853 1. 55 1. 40 2. 42 1. 67 25 35 22 6.00 2.68 6.50 2.30 7.90 1860 0.00 2.54 5.74 12.44 1857 1860 0.00 1857 1857 1.14 3.07 4.17 4.11 1858 0.00 1879 1882 1883 0.72 1878 11 1878 1881 3.44 1867 0.01 1882 1885 0.00 1886 1.60 3.10 1874 0 00 1875 1.45 8.58 5.89 4.26 (¹) (¹) 1882 1883 2. 44 6. 31 7. 11 4.40 6.82 3.55 3.93 0.41 1860 00 1.58 1885 0.05 1874 2.23 1873 1860 0.00 0.83 2.18 0.07 0.06 0.00 0. 60 2. 66 3. 37 1855 . 07 1881 1884 . 98 . 63 1881 1884 0.04 70 '82 1873 566, 567, Belton 1883 1884 1884 3,85 0.00 1886 1886 Hearne 10. 10 1884 0.00 1.08 1883 1885 567, Hearne 568, Burkevillet..... 16. 88 4. 25 5. 15 1886 1860 1853 2.47 2.51 6,16 1.98 1.97 4. 39 3. 45 1. 08 2. 47 0. 70 4.94 7.81 5.97 6.00 1887 1882 1884 1884 0.05 1882 1857 1.02 0.86 0.18 1859 1858 0.08 1858 0 15 4.27 1860 0.97 0.95 3.44 1852 1853 3. 98 1852 2.80 5.14 1853 1852 2. 64 4. 26 3. 01 2.06 0.40 2.00 1879 1873 5. 26 1881 0.43 1857 7.51 1870 0. 07 1881 7.58 5.60 4.24 2. 25 3. 88 3. 12 6. 89 7. 05 7. 45 0.26 2.28 0.82 8.94 5.00 13.65 1852 1853 1881 0.67 1879 1860 1856 0.00 1850 1884 1858 1851 1886 1860 1851 1882 1862 575. Fort Croghau. 576. Huntsville. 577. Austin. 578. Webberville. 579. Blue Branch 580. Fredericksburgh 581. Sour Lake 582. Washington 583. Lone Point. 583. Lone Point. 584. Union Hill. 585. Chapel Hill 586. Farm 587. Hempstead 588. Grange 1851 1885 1853 1859 3 01 1.06 3. 33 2. 81 1850 .06 1883 4.89 8.76 8. 60 3.12 0. 02 2 06 1883 0.49 1859 8.80 0.18 8.41 1873 2.96 0.50 4.34 8.14 1.24 0.40 8, 80 6, 30 6, 88 1872 1.70 1871 5. 25 1870 3 44 0.61 1869 1879 . 40 60 1873 0. 81 1871 12.30 0.00 5.20 1.42 3.89 1878 1879 0.78 1882 1883 4.22 4.63 1881 1.96 1881 1882 1.06 1889 0.01 1886 18-3 1882 1.26 1.30 1859 1857 5.20 6 1859 1858 1858 3.88 2.33 0.97 1.62 1860 0.29 0.03 3. 10 0.90 6.78 2.17 2.99 1.42 15 85 0Ē 50 0.77 2.80 1.03 4.60 4.90 0.00 0.00 1.18 0.00 0.52 0.00 0.72 0.08 0,40 3.48 3.17 1.81 8.37 2.97 1883 0.87 0.26 2.13 5.18 2.37 1.19 1882 1883 1882 14.60 1884 1883 52 589, Crange 589, Camp Hudson 590, Fort Martin Scott 1853 1860 1851 1859 1859 1850 1.08 1.60 2.31 3, 20 3, 00 3, 45 8, 22 1884 1859 1850 1882 1860 1851 0.48 3.45 1886 1858 1882 1859 1851 1357 1850 6.48 10.28 5.90 591, Camp Verde '57 '60 1. 34 1860 0.00 1857 2,30 1367 1859

(') Generally

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

+ No data.

(1) Frequently,

Digitized by Google

(T) Trace of rain-fall,

TEXAS-Continued.

			July.					Augus	t.			, S	eptemb	er.	
Name and number of station.	Aver- age.	Max	imuw.	Min	imum.	Aver- age.		imum.	Mini	mum.	Aver- age.	Maxi	wum.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs
53, Camp Concordia		• • • •				1.16					1.63				
54, Fort Quitman	1.68	3.84	1870	0.41	1860	2.39	5.31	1870	0, 11	1860	2.37	5.90	1870	0.06	187
55, Fort Concho	. 2.26	7.60	1880	0.36	1886	2.50	8.96	1882	0. 20	1881	3.00	7.20	1880	0.44	187
56. Midland		1.07	1887	0.43	1886	1.62	2.02	1836	1.21	1887	0.86	1.47	1886	0.25	185
57, Fort Chadbourne	. 1.71	5.98	1852	0 08	1860	2.27	4.30	1854	0.43	1858	3, 30	7.24	1859	0.29	186
58, Content	. 9.40					2.60									
59. Camp Colorado	. 1.03	2.33	1858	0.41	1857	5.44	14.39	1860	1.77	1858	4.27	8,60	1859	1.40	185
60, Coleman City		7.60	1×78	0.87	1879	2.28	5. 52	1882	1.06	1878	4.51	7.08	1877	0.37	187
61. Waco	1.95	5.27	1882	0.06	1887	3.05	6.85	1887	0.00	1874	3.91	7.67	1882	1.10	180
62. Gatesvillet					100.	0.00		1001							
63, Fort Gates	0.49			1	•••••••	2.34					0.02				
64. Fort Stockton		7.22	1880	0.00	1860	2.62	8.96	1870	0.15	1874	3. 88	14.68	1883	0.00	187
65. Fort Davis		10. 11	1880	0.35	1884	3. 97	9.17	1892	1.77	1869	2.97	8.49	1859	0.10	186
66. Belton		2.95	1882	0.11	1884	1.93	3.77	1882	0.05	1883	2.87	4.89	1885	0.24	188
67. Hearne		2.70	1885	0.00	1884	1.81	3.25	1882	0.40	1885	4.12	9.16	1885	1.65	188
68. Burkeville †		2.10	1000	0.00	1004	1.01	0.20	1002	0. 10	1000	1.10	0.10	1000		100
69, Houston		4.89	1882	1.37	1886	3.45	8.57	1887	0.37	1883	6.93	12.83	1886	2.93	188
70, Fort Lancaster		5.00	1858	0.04	1860	3.46	6.38	1860	0.00	1859		10.85	1859	0.43	186
71. Fort Terrett		3.68	1803	3.04	1852	1.72	1.83	1853	1.60	1852	2.91	5.72	1852	0.10	185
72. Fort McKavett.		6.78	1880		1879			1859	0.04	1854		10.97	1874	0.07	183
		0.10	1000	(T)	1910	2.50	7.54	1928	0.04	1004	3. 10	10. 97	1014	0.01	10
73, College Station			1050		1070	3.90	10.00	1000		1001		10 00	1000	0.29	187
74, Fort Mason and Mason		6.64	1852	0.60	1879	2.85	13.90	1860	0.53	1881	3.92	10.39	1880		
75. Fort Croghan	. 3.39	5.09	1853	1.60	1830	1.08	3.09	1852	0. 20	1853	2.24	5.96	1852	0.45	185
76, Huntsville		2.59	1885	0.99	1882	1.55	3.13	1882	0.38	1884	3.77	5.35	1885	2.00	188
77, Austin	. 2. 18	10.13	1880	0.00	1871	2.73	10.88	1860	0.00	1865	4.42	12.78	1874	0.00	187
78, Webberville			•••••								10.75				•••••
79, Blue Branch		8.80	1869	0.10	1871	1.27	1.80	1869	0.30	1871	2.26	4.70	1873	0.70	186
80, Fredericksburgh		5.40	1880	0.55	1879	2.28	4.55	1880	0.19	1877		12.25	1880	0.38	187
31, Sour Lake		5.67	1882	0.13	1886		13.66	1882	0. 39	1887	6.13	9.11	1885	1.75	188
2, Washington		2.04	1859	0.98	1857	2.36	2.85	1857	1.87	1839 ,	4.67	7.15	1859	2. 19	185
33, Lone Point			• • • • • • • • •			11.62				••• • •			•••••		••••
4, Union Hill	1.72	. 				2.73	4.96	1860	0.50	1858	2.65	4. 19	1859	1.31	186
5, Chapel Hill.	. 2.90					5,35							• • • • • • • •		
6, Farm	5.45		 . .			0.07					4.91		•••••		
87, Hempstead	1.70	3. 05	1882	0.01	1884	1.10	1.9	1883	0.03	1884	3.11	4.05	1884	2.38	188
8, Orange		0.40	'83 '87	0.02	1886	2.61	7.00	1885	0.18	1884	1.72	4.17	1887	0.14	188
9, Camp Hudson	0.08	0.15	1860	0.00	1858	3.33	6.99	1860	1.32	1859	0.99	1.73	1859	0.10	186
0, Fort Martin Scott		1.71	1850	0.80	1851	1.28	1.20	1851	0.37	1850	1.81	1.44	1851	1.18	185
1, Camp Verde		7.80	1867	0.28	1860		18, 96	1860	0.05	1858	4.47	11.85	1857	0.50	180

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

Name and number		Octobe	r.	ή.	Novemb	er.		Decemb	er.		Year.	
of station	A ver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age-	Maximum.	Minimum.	Mean.	Maximum.	Minimum
	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Yrs.	Ins.	Ine. Ire.	Ins. Yrs.	Ins.	Ins. Yrs.	Ins. Tre
53, Camp Concordia				0.65			0.50					
54. Fort Quitman	0.50	1.20 1870	0.12 1860	0.47	1.18 1873	0.00 1870	0, 39	0.73 1860	0.13 1859	10.38		
i55, Fort Coucho	1.49	6.76 18-3	0.00 (1)	0.78	2.92 1874	0.00 (1)	0.15	5.85 1884	0.00 (1)	19.02	23.80 1874	18.42 187
56 Midland	1.46	2.15 1887	0.76 1886	0.13	0.38 1887	0.00 1886	0.08	0.15 1885	0.00 1886	10.86		
57. Ft. Chadbourne	2.03	3.64 1852	0.19 1860	1.70	6.30 1854	0.16 1859	1.21	2.99 1857	0.00'52'55	22.85	34. 27 1884	12.83 186
58. Content												
59. Camp Colorado.	1.74	2.65 1858	0.63 1860	2.46	6.92 1860	0.00 1859	2.08	4.19 1857	0.50 1859	24.10	40.27 1860	16.64 185
60, Coleman City	2.28	4.33 1877	0.96 1879	1.58	2.11 1878	0.08 1879	2.33	8.42 1877	0.96 1878	29.70	35,83 1880	17.99 187
61. Waco	1.85	4.80 1868	0.00 1874	2.81	5.00 1874	0.10 1867	5.59	9.50 1874	2.30 1867	37. 52		
62. Gatesville t		1.00 1000				0.10 100.	0.00	0.00 1011	2.00 1001			
63. Fort Gates	2.62			5.39			2.84		•••••		•••••	
64. Fort Stockton	1.25	6.25 1884	0.17 1878	0.74	1.76 1880	0.00 1859	0.85	3.45 1874	0.00'59'73	17.10	33, 40 1880	5.16 187
65. Fort Davis	1.46	6. 18 1879	0.00'58'70	0.44	1 84 1855	0.00 (1)	0.44	1.88 1860	0.00 (1)	17.71	25.94 1856	8.52 186
66. Belton	0.87	1. 56 1886	0.12 1884	0	1 04 1000	0.00 ()	0. 92	1.00 1000	0.00 (7)	1	20.01 1000	0.02 100
67. Hearne	2.56	4. 70 1882	0.95 1885								•••••••	
68. Burkeville	2.00	1. 10 1002	0.30 1005		•••••••••			·····			••••••••••	
69. Houston	3.37	5.56 1882	0.67 1886		- -	•••••••			••••••••••		•••••••••••	
70. Fort Lancaster.		7.16 1857	0.00 1660	0.93	2.71 1857	0.00 1859	1.97	7.20 1857	0.00 1856	26, 25	39. 58 1857	13.37 186
71. Fort Terrett	4.21	4. 50 1853	3.92 1852		1.23 1852	0.04 1853	0.76	1.53 1853	0.00 1856	20.20	99.96 1001	19: 31 100
72. Fort McKavett.	2. 24	7.21 1881	0.12 1852	0.64	3.55 1882	0.49 1858				22.97	40.03 1852	16. 18 185
73. College Station.	2. 24	1. 21 1001	0.12 1882	1.53	3. 33 1882	0.49 1858	1.64	6.24 1874	0. 00 '55 '78	22.91	40.03 1852	10.10 10%
	2. 19		· • • • • • • • • • • • • • •	4.96	· • • • • • • • • • • • • •	•••••••••	0.38	••••••••	· • • • • • • • • • • • • • • • • • • •	····/	• • • • • • • • • • • • • • •	•••••
74, Fort Mason and	0 00	4 40 1000	0.05 1070	1.00	0 00 1070	A AF 1070		0 00 1000	A A1 1000	00 50	43 00 1070	13.16 187
Mason	2.22	4.46 1857	0.85 1856	1.33	3.90 1878	0.05 1858	1.80	6.70 1857	0.01 1852	26.52	42.80 1852	
75, Fort Croghan	2.11	8.52 1851	0.28 1850	3. 89	9.80 1851	1.02 1850	2.86	7.40 1851	0.57 1852	36.63	45.71 1852	25.60 185
76, Hunteville	3.09	8.62 1882	0.00 1886	1.40	2.26 1885	0.53 1859	3.38	3.88 1885	2.87 1859	33.69		
77, Austin	8.28	15.14 1880	0.12 1878	2.99	7.52 1874	0.00 1861	2.27	7.72 1874	0.22 1856	37.38	46.52 1874	22.18 186
78, Webberville				0.00					• • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • •	
79, Blue Branch	4.52	10.00 1870	0.70 1873	2.30	3.30 1871	1.60 1869	2.99	5.80 1872	0.35 1871	41.14	45.12 1869	32.46 187
80, Fredericksb'gh.	2.38	3.93 1877	0.50 1878	2.19	5.09 1880	0.38 1879	1.40	4.79 1877	0.21 1879	28.38	47.23 1880	18.27 187
81, Sour Lake	4.57	9.45 1886	0.69 1883		· • · • • • • • • • •	••••••		•••• · · •••				
82, Washington	8.08	4.42 1857	1.74 1859	0.82	1.65 1858	0.00 1859	4.63	7.70 1857	0.65 1859	80.23		
83, Lone Point t		• • • • • • • • • • • • • • • • • • •	. . 		 .	· · • • • • • • • • • • • • • • • • • •	· · · • • • •		•••• ••• ••• •			
84, Union Hill	4.78	11.29 1858	1.50 1860	1.67	3.62 1860	0.05 1859	2.56	2.60 1860	2.52 1838	31.11		· · · · · · · · · · · ·
85, Chapel Hill †					
86, Farm	5.50		. .	1.60			4.55		 [!]	44.17		
87, Hempstead	5. 73		. 									
88, Orange	1.24	5.40 1887	0.00 1886						<i>a</i>			
89, Camp Hudson.	0.97	2.87 1859	0.00 1860	0.19	0.33 1860	0.07 1858	0.42	0.90 1860	0.05 1858	12.13	13.85 1860	11.88 185
90, Ft. Martin Scott	1.07	1.15 1851	0.99 1850	2.68	3,87 1850	1.50 1851	1.87	2.74 1850	1.00 1851	33.03	
91, Camp Verde		3.96 1857	0.00 1860	1.94	4.40 1867	0.00 1859	2.45	7.11 1857	0.50 1859	29.27	87.95 1860	18.60 1854

† No data.

1.1

(1) Frequently.

(*) Generally.

(T) Trace of rain-fall.



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Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			Januar:	y.			I	Februar	Σ .		ĺ		March	•	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	imum.	Aver- age.	Maxi	mum.	Mini	num.
	Ins.	Ins.	Yrs.		Yrs.	Ins.	Ins.		Ins.		Ins.		Yrs.		<u>Y</u> ri
2, Round Top		6.70	1861	1.11	1860	2. 36	3.80	1860	0.62	1859	1.82	2.14	1861	1. 25	185
3, Pin Oak	5.00					5.50					10.00				
4, Bluff Settlement	2.58			1.45	1874	1.28	3.18	1874	0.75	1872	3. 18	4. 8J	1873	1.40	187
5, Flatonia				· • • • • • •		3.74				 .	·····		• • • • • • • • •	· · · · · · · · ·	
						····'		• • • • • • •		· · · • • • • • • • • • • • • • • • • •	1		••••••		• • • • • •
7, New Ulm	4.14	10.56	1882	1.09	1887	4. 53			1.06	1885	5.07		1883		168
8, Comfort				0 . UÜ	1847		1.30		0.12	1885	1.73	3.56		0.35	18:
9, Sisterdale								• • • • • • • • •			1.14		•••••	•••••	
0, Lockhart										•••••	3.00	•••••	• • • • • • • •		•••••
I, Luling t	1			•••••	• • • • • • • •			•••••••••••••••••••••••••••••••••••••••			1			0.06	
2. New Brauntels	. 1. 5 2	1.39	1898		•••••	2.03	3.50	182/	0.04	1859	1.00	1.07	1856	0.06	18
4. Columbus †	• • • • • • • •	•••••	•••••	•••••	••••••	'! • • • • • '	· · · · · · · ·			••••••	·••••	•••••			•••••
5. Oakland			1071	2. 30	1000		9.07	1071	1 70	1070	h		1071	1 00	
6. Gonzales		2.48	1911	2.30	1872	1.77	2.05	1871	1.50	1872	1.68		1871	1.60	18
o, Gonzales		4, 53	1858	0.21	1887		10. 60	1050	0.30	1850	2.39	5.00	1852	0.10	18
8. Brackettville		1. 33 5. 39	1858	0.01	1879	0.70	1. 22		0.30	1850	2. 59	5.00 4.55	1852		18
9. Fort Clark		3.14	1876	0.00	1852	1.26	4.03		0.06	1870	0.94	2.37	1858	0.77	18
0. Fort Lincoln		0.26	1852	0.00	1852	4.00	5.05	1850	2.96	1870	3,50	4.90	1852	2.11	18
1. Uvalde	0.10	2.85	1880	0.08	1879	1. 12	1.82	1880	0.71	1882	2.07	4.88	1883	0.59	18
2, Castroville	1 26	3.20	1880	4.12	1879	1. 44	2.63	1880	0.29	1879	1.33	2.68	1860	0.38	18
3. Columbia t		3. 20	1000	4.12	1010	T. 34	2.00	1000	0.20	1019	1.00	2.00	1000	0.00	10
4. Cedar Grove		4.54	1869	1.38	1868	2.46	3.04	1869	1.87	1868	2.25	3.08	1867	1. 76	
5, Clear Creek			1000	1.00	1000	2.40	3.02	1008	1.0/	1000	2. 80	3. 00	1001	1. 70	10
6. Galveston	9 66	8.50	1869	0.66	1990	9 61	8 90	1881	0.10	1870	5. 59	6. 34	1880	0.91	18
7. Cuerot		0.00	1000		1000	, 2. 61	0. 20	1001	0.10	1010	0.00	0.04	1000	0. 51	10
8. Yorktown.	2 98	4 05	1869	0. 80	1870	0.73	0.00	1870	0.50	1872	2.13	3.60	1870	1.00	18
9, Helena	0 10	4.00	1000	0.00	1	0.10	0.00	1010	0.00		0.05	0.00	1010	1.00	10
0. Eagle Pass	1 12	3.72	1880	0.01	1883	0.97	2.03	1878	0.32	1883	1.80	5.59	1883	0.32	18
I. Fort Duncan	0.33	0.74		0.00	'55 '57	1.49	4.48	1877	0.12	1850	1.28	6. 27	1852	0.00	- Č
2. Fort Inge	0.70	2, 16	1853	0.10	1855	1.96	3.58	1853		1859	1. 50	3.00	1854	0.08	18
3. Victoria †			1000	•		1.00		1000			1.00	0.00		0.00	
4. Goliad						0.53					1.41				
5. Fort Merrill.		0.35	1855	0.11	1854	2.09	2.19	1855	1.99	1854	0. 09	0.13	1855	0.05	18
6. Fort Ewell		1.30	1853	0.22	1854	4.73	6.60	1853	2.86	1+54	0.71	1.05	1853	0.38	18
7. Lavaca	3, 63	4.30	1870	2, 95	1569	2.00	3. 01	1869	1.00	1870	2.10	2.40	1869	1.80	18
8, Indianola	2.32	6.40	1855	0.70	1879	1,93	4.21	1881	0.04	1884	2.60	5.86	1876	0.18	Ĵ8
9. Fort McIntosh and Laredo		3.15	1881	0.00	'71 '72		7.54	1877	0.00	'70 '71		3.82	1880	0.00	'71 '

			A pril.					May.			t.		June.		
Name and number of station.	Aver- age.	Maxi	mum.	Mini	m 11 m .	Aver- age.	Max	imunı.	Mini	mam.	Aver- age.	Max	imam.	Mini	mum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Int.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Trs.	Ins.	Yrs.
592, Round Top		3.02	1860	1.24	1839	0.74	1.31	1859	0.18	1860	1.51	2. 55	1859	0.47	1860
593, Pin Oak					1000	6.25					1.00				1000
594, Bluff Settlement	4.61	6.05	1873	1.75	1871	4.83	6.90	1873	2.00	1874	4.92	8.13	1873	3. 32	1871
595, Flatonia †	1										1				
596, Beaumont	1.02	1.51	1884	0.53	1882	3.04	5.07	1884	1.30	1883	0.77	1.52	1883	0.35	1882
597, New Ulm	3.84	8.00	1873	0.17	1887		15.25	1884	0. 05	1866		11. 33	1873	0.00	1877
598. Comfort	3.48	8.34	1885	0.34	1887		6.14	1885	1.46	1886	2.00	4.06	1887	0.05	1885
599. Sisterdale						1. 72					4.37				
600. Lockhart.	2. 20														
601. Luling		3.93	1884	0.67	1882	3.49	7. 17	1884	0.00	1886	1.08	4.99	1877	0.00	1885
602. New Braunfels	1.93	4.90	1856	1.30	1857	4.67	8.70	1858	2.40	1857	2.62	6. 30	1858	0.20	1+56
603. Weimar	3. 29	6.03	1884	0.20	1882		11.56	1884	0.00	1886	0.89	1.12	1884	0.18	1885
604. Columbus		0.00		0.,00		2.20			0.00	1000	1.40		2002	0.10	1000
605, Oakland	4.43	9.05	1870	1.45	1871	3. 20	5,65	1871	1.35	1870	3,16	5.00	1870	1.69	1871
606, Gonzales						2.00					2.70	0.00	1010		
607, San Antonio		6.07	1866	0.28	1879	3.29	7.92	1885	0.00	1860		10.46	1872	0.00	1858
608, Brackettville		4.56	1879	0.00	1882		13. 11	1880	2.21	1877	2. 16	5.15	1878	0.01	1881
609. Fort Clark		3, 29	1860	0.00	1870	2.14	6.88	1876	0.37	1860	3. 42	7.68	1873	0.11	1854
610. Fort Lincoln		4.86	1851	0.23	1852	2. 89	4.26	1852	1.90	1851	2.07	3.38	1852	0.76	1851
611. Uvalde		3.08	1879	: 0. 03	1877	2.84	6. 44	1881	0.17	1883	0.90	2.01	1880	0.00	1881
612. Castroville	2.31	3.06	1881	1.80	1878	3. 08	4.64	1878	1.29	1879	1.31	3.64	1878	(T)	1881
613. Columbia		0.00		1.00	1010	2. 62	5.20	1885	0.00	1886	1.79	3.08	1887	0.57	1885
614, Cedar Grove	3.68	5.96	1868	2.37	1869	4.72	8.18	1867	2.31	1808	4 47	6. 55	1867	2.40	1868
615. Clear Greek			1000		1000	2. 30	0.10	1001	2.01	1000	8.72	0.00	1001		2000
616. Galveston		14.78	1868	0.10	1871	4. 21	10. 27	1876	0.03	1886		11.89	1871	0.03	1881
617. Cuero		1.60	1884	0.94	1883	3.52	6. 89	1884	0.30	1886	1.59	2.94	1887	0.30	1885
618. Yorktown		3.63	1869	3.05		2.68	4.30	1869	0.10	1870	2.04	3.20	1872	1.00	1871
619. Helenat		0.00	1000	1 0.00	1012	a. 00	1.00	1000	0.10	1010		0.20	1010	1.00	1011
620. Eagle Pass	1.19	2.47	1879	0.68	1880	3. 61	8.16	1881	0.63	1879	2.11	5.12	1879	0.00	1881
621, Fort Duncan		3.65	1877	0.00	(1)	1.73	5.65	1878	0.16	1879		10 70	1853	0.05	1875
622, Fort Inge		3.71	1860	0.17	1855	2.36	5.76	1852	0.00	1860	4.51	9.00	1853	0.73	1851
623, Victoria		0. 71	1000	0.11	1000	2, 10		1002	0.00	1000	2.40	0.00	1000		2003
624. Goliad					•••••	6. 55					1.97				•••••
625. Fort Merrill.		3.47	1851	0.23	1855	3.43	7.66	1854	1.21	1855	4.10	8.75	1855	1.13	1852
626. Fort Ewell	1.12	2.25	1853	0.00	1854	5.11	6.88	1854	3.85	1853	7.85	9.65	1853	6.05	1854
627. Lavaca		3.16	1869	0.50	1870	1.32	2.00	1869	0.64	1870	3.95	7.50	1869	0.40	1870
628. Indianola.	1.79	4.19	1885	0.32	1876	3.27	7.94	1884	0.18	1874	2.59	7.56	1884	0.21	1885
629, Fort McIntosh and Laredo	0.87	4. 32	1853	0.00	(1)	2.24	7.75	1881	0.25	1873	3.01	6. 32	1873	0.00	1881
oza, Fore morniosu and Lareuo	V. 01	2.04	1000	0.00	()	6. Gt	1.10	1001	0.20	1019	0.01	0.02	1019	0.00	1001

† No data.

(1) Frequently.

(*) Generally.

(T) Trace of rain-fall,

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

			July.					Augus	t.	:		8	eptemb	юг.	
Name and number of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	imum.	Minir	num.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs
2, Round Top	0.53	0.85	1859	0.20	1860	2.91	4.66	1860	1.17	1859	4.11	6. 94	1859	1.28	186
3. Pin Oak						0.00					1.25				
A Buff Settlement	3.96	4.95	1870	3.25	1872	2.01	5.20	1871	0.60	1874	5.41	17.20	1874	0.88	187
5. Flatonia †															
6. Beaumont	3.00	5.26	1883	0.73	1883	5.82									
7. New Ulm		14.38	1873	0.00	1884	8.05	8.38	1878	0.09	1875	5.68	15.09	1874	0.90	187
8. Comfort		5.20	1885	0.14	1887	8.51	4.81	1887	2.27	1885	3.36	3. 62	1885	3.10	18
9. Sisterdale		0.20	1000	0.14	1007	1.68	1.01	1001		1000	7.10		1000		
0, Lockhart.	8.25	12.00	1869	4.50	1870	8.30				••••••••					•••••
1, Luling	2. 30	4.93	1882	0.00	1885	1.84	6.30	1886	0.00	1883	3.90	5.50	1883	2.53	18
2. New Braunfels.	2.23	2.66	1859	1.00	1856	2.05	3.00	1857	0.20	1856	3.94	7.35	1859	1.80	18
		5.68	1885	0.00	1884	1.55	3.79	1886	0. 02	1883	3.65	5.85	1686	2.67	18
3, Weimar		0.00	1000	0.00	1008	1. 55	3. 18	1000	0.02	1009	16.20	0.00	1000	2.01	10
4, Columbus			1070					1070		1070	0.88		1000		
5, Oakland	. 1.24	1.87	1870	0.85	1871	2.93	4.44	1870	1.50	1872		1.10	1872	0.65	18
6, Gonzales .	. 3.90		••••••••		••••	1.00		•••:		•••••••	0.30		••••••••		
7, San Antonio		6.56	1885	0.00	1871		11.38	1860	0.17	1850	4.09	17.60	1859	0.05	18
8, Brackettville		5.35	1880	(T)	1879	2.61	4.29	18:0	0.27	1877	2.70	4.12	1881	1. 29	18
9, Fort Clark		3.87	1853	0.00	71' 75	2.23	10. 10	1870	0.00	'74 '77	3.93	11.06	1874	0.13	18
0. Fort Lincoln	. 1.00	1.10	1852	0. 59	1851	0.39		• • • • • • • • •		• • • • • • • • •	1.54	2.80	1850	0.27	18
1. Uvalde.	2.34	4.85	1878	(T)	1879	3.19	5.71	1880	0.09	1877	2.74	4.46	1880	1.28	18
2. Castroville	3.10	7.74	1880	0.82	1878	2. 70	6.69	1880	0.00	1877	1.92	8.95	1880	0.22	- 18
3, Columbia	. 3.22	8.73	18c7	0.30	1884	2. 61	3.92	1887	0.65	1884	9.25	15.86	1866	4.71	18
4. Cedar Grove	. 4. 31	5. 33	1867	3.29	1868	7.83		• • • • • • • •			2.50				
5. Clear Creek						2.88					4.60			1	
6, Galveston	. 3. 31	9.31	1874	0.34	1872	4.96	10.19	1876	1.09	1883	7.75	26. 01	1885	0.64	18
7. Сцего		5.37	1885	0.00	1884	1.43	3.48	1885	0.26	1883	3.73	4. 63	1886	2.29	18
8. Yorktown		9.35	1869	0.75	1871	2.72	4.90	1869	0.80	1871	3.86	7.85	1869	0.50	î
9. ilelenat		0.00	2000	0.10	1011		1.00	1000	0.00	1011	0.00	1.00	1000	0.00	
0. Eagle Pass	3. 34	6.68	1880	0.14	1879	3. 54	6.01	1882	0.35	1877	3. 54	7.16	1880	1 0.46	18
1. Fort Duncan		6.70	1852	0.07	1879	1.91	4.37	1800	0.13	1877	3. 52	9.46	1857	0.10	18
2. Fort Inge		6.82	1852	0.04	1860	2.50	5.06	1860	0.12	1852	2. 30	5.11	1859	10.73	18
		0.04	1002	0.01	1000	1.10	5.00	1000	0.16	1005	2.00	0.11	1008	0.75	10
3, Victoria			••••••		••••••	0.43		••••••		•••••••	1 00		• • • • • • • •		
4, Goliad		0 76	1050	1.1.10	1081		0.00	1055	1 21	1021	1.33	1 00	1089	0.02	
5. Fort Merrill	5.71	8.76	1852	4.19	1851	4.12	6.29	1855	1.31	1851	4.25	5.86	1853	2.93	18
6, Fort Ewell	2.90	3.58	1854	2.22	1853	2.43	3.21	1854	1.65	1853	4.91	5.29	1853	4.68	18
7, Lavaca	. 8.60	11.30	1869	5.90	1870	3.50	5.10	1869	1.90	1870	8.80	1	•••••••		
8, Indianola		5.76	1874	0.33	1884	3.88	9.02	1882	0.67	1885	7.01	12.89	1874	0. 81	18
Fort McIntosh and Laredo	. 1.90	5.83	1878	0.00	(1)	2.80	12.59	1879	0.00	1851	2.56	9.73	1874	0.00	18

Name and number of		October	r.		Novemb	er.		Decemb	er.	1	Year.	
station.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Minimum.	Aver- age.	Maximum.	Mivimum.	Mean.	Maximum.	Minimum.
592. Round Top	Ins. 3.04	Ins. Yrs. 4.44 1859	Ins. Yrs. 1.65 1860	Ins. 2.73	Ins. Yrs. 5. 39 1860	Ins. Yrs. 0.07 1859	Ins. 1.20	Ins. Yrs. 1.91 1860	Ins. Yrs. 0,49 1859	Ins. 27.65	Ins. Yrs.	Ins. Yrs.
593, Pin Oak	4.50	1. 11 1000	1.00 1000	3.00	0.00 1000	0.01 1000	2.25	1.01 1000	0.48 1008	46.75		•••••
594. Bluff Settlement .		15.10 1871	0.88 1874	5.17	10.00 1874	1.25 1872	3. 05	5.78 1874	0. 50 1871	46.57	57.71 1873	33. 35 1872
595, Flatonia†							1					
596, Beaumont †												
597, New Ulm		12.44 1881	0.79 1874 0.73 1885		14.92 1873 0.44 1885	0.48 1887	4. 62	16. 43 1875	0.46 1880	53.56	91. 08 1873 31. 82 1885	27.32 1877
598, Comfort		1. 75 1880	0. 13 1865	0.30	0.99 1000	0.10 1000	0.62	1.04 1885	0.20 1880	24.82 23.50	31.82 1885	
600. Lockhartt	1. 40	•••••		0.10	•••••			••••••		20.00		
601. Luling	1.75	3.69 1883	0.54 1882									
602, New Braunfels	3.12	4.60 1856	1.40 1858	1.77	4.70 1857	0.00 1859	0.70	1.30 1858	0.40 1859	27.58		
603. Weimar	1.67	3.12 1883	0.78 1886			. 						
604, Columbus t				1	1		• •		· • • • • • • • • • • • • • •			
605, Oakland		7.64 1870	1.70 1872	1.40	2. 10 1870		1.00			28.75 42.00		· • • • • • • • • • • • • • • • • • • •
606, Gonzales		7.09 1871	0.30 1849	1.50	8.88 1857	0. 00 '59 '79	2.08	11. 09 1857	0.02 1871	42.00	41.91 1880	20.13 1887
608. Brackettville		16. 17 1881	0.21 1879	1.09	2.74 1882	0 03 1879	1.08	3. 52 1877	0.02 1882	26.38	40 54 1879	16.52 1878
609. Fort Clark			0.00'75'77	1.45	6.67 1874	0.00 1859	2.45	23. 03 1857	0.00 · (')	22.03	34. 42 1870	13. 56 1871
610. Fort Lincoln	1.36			2.01			0.98			21.73		
611, Uvalde	1.21	3.15 1881	0.44 1880	1.45	2.24 1881	0.01 1879	1.64	6.74 1877	0.09 1879	22.06	81.29 1880	19. 22 1879
612, Castroville		4.85 1881	0.21 1878	1.22	1.76 1880	0.18 1879	1.37	5.05 1877	0.17 1873	22.85	86.44 18+0	15.23 1879
613, Columbia		1.57 1887	0.00 1886	1			1			·	•••••	· · · · · · · • • • • • • • • • • • • •
614, Cedar Grove	2.83	3.63 1868	2.06 1867	4.58	5.97 1868	3.19 1867	5.60	8. 84 1868	2.36 1867	48. 21	····	•••••
615, Clear Creek 616, Galveston		17. 78 1871	0.12 1874	4. 32	8.91 1873	0. 05 1887	5.02	10.28 1867	2.07 1879	54.60	66.87 1887	26. 93 1879
617. Cuero			0.00 1886	7.02	0.01 1010	0.00 1001	0.02	10.20 1001	2. 01 10/0	02.00	00.01 1001	20. 80 1018
618. Yorktown			1.75 1869	2.42	5.50 1870	0.25 1869	0.78	1.10 1870	0.50 1871	32, 76	46. 19 1869	30.95 1870
619, Helenat		••••••••••••••	••••••	1		i						
620, Eagle Pass	1.92	6.54 1881	0.35 1877	0.60	1.57 1881	0.03 1879	1.19	5.40 1877	0.09 1-82	24, 93	31. FD 1880	18.65 1879
621, Fort Duncan	1.15	4.10 1853	0.04 1874	1.17	3. 70 1850	0.05'53'76	1.39	6.61 1877	0.00'52'56	20.74	83.31 1853	14.12 1851
622, Fort Inge		6.76 1853	0.33 1854	1.67	3.71 1854	0.06 1859	0.87	2.30 1849	0.00 1852	25, 32	36. 64 1853	18.06 1859
623, Victoria† 624, Goliad	4 02	•••••••		1.42		•••	2.82	· · · · · · · · · · · · · · · · · · ·	••••	24.92	•••••••	
625, Fort Merrill		3. 12 1853	0.37 1851	1.42	3. 20 1854	1.25 1855	1. 29	2.13 1854	0.56 1851	29.53	35, 22 1854	18.48 1851
626, Fort Ewell	2.36	3. 32 1853	1.41 1852	0.49	0.83 1853	0.15 1852	1. 16	1.87 1853	0.45 1852	34. 53		
627, Lavaca	5.90			0.40			2.00			44.03		
628, Indianola	8.71	11.75 1877	0.62 1874	3.07	6.04 1878	0.13 1879	3.08	6.96 1875	0.69 1880	37. 57	45.17 1880	26.78 1879
629, Fort McIntosh	1 10	7.82 1856	0.00 (1)	0. 84	3. 12 1887	0.00 (1)		4 50 1055		1 10 00	07 40 1070	0.00.1071
and Laredo	1.49	1. 64 1800	0.00 (*)	0.84	3. 12 1887	0.00 (¹)	1. 18	4. 52 1857	0.00 (¹)	19.85	27.49 1878	9.90 1871
	<u> </u>				·		·	1	·			
11	No data	h ,	(') Frequ	ently.		(*) Geper	ally.		(T) Trace o	f rain-f	all,	

No data,		
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(*) Generally.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

		J	anuary	.		l.		Februa	ry.	. ,			March	ı.	
Name and number of station.	Aver- age. Maximum.		um.	Min	lmum.	Aver- age.	Max	imam.	Mini	mum.	Aver- age.	Ma	timum.	Min	imum.
	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Γre.	Ins.	Yrs.	Ins.	Ins.	Γrs.	Ins.	Yrs
30, Aransas Canal i	3.96	. • • • • • • • • •	•••••	· • • • • •	•••••••	1.27	2.37	1846	0. 17	1887	1. 43	1.61	1887	1.25	184
32, { Ringgold Barracks	1.06	3. 48	1 8 81	0.00	{ 1873 / 1873 / 1878 / 1878	0.98	2. 86	1877	0.00	(¹)	1. 04	4.75	1878	0. 00	{ 185 { 187
33, Hidalgo	. 1.81	2.79	1881	1.15	(1879) 1882	0.96	1.15	1879	0.76	1870	1. 01	1.42	1880	0. 60	187
34, { Fort Brown	1. 57	3. 87	18 8 0	0.00	{ 1 85 3) { 1873}	1. 56	7. 79	1877	0.00	{1870 1871 1872	1. 19	4. 15	1878	0.09	187
			April.				•	Мау					June.	÷	<u> </u>
Name and number of station.	Aver-			20	•	Aver-			1		Aver			· · · · · · · · · · · · · · · · · · ·	
	age.	Maxio	um.	Min	imum.	age.	Маз	imum.	Mini	wum.	age.	Ma	ximum.	Min	imum.
100 Augusta (Jan 2) -	Ins.	Ins.	Trs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs
30, Aransas Canal † 31, Corpus Christi	2.68	4. 32	1851	(T)	1887	2.41	3. 44	1846	1. 26	1887	3. 99	6, 65	1846	0.00	188
32, { Ringgold Barracks	1.05	3. 79	1853	0.00	(¹)	1	10. 28	1885	0.00	1872	2.79	10. 98	1854	0.00	{ 189 189
	0.10	0.19	1880	0. 00	1879	1.02	2. 05	1880	0. 00	1879	0.56	1. 12	1879	0.00	188
33, Hidalgo 34, { Fort Brown Brownsville	0.56	2. 20	1853	0.00	(י)	3. 74	7.17	1885	0.00	\$1857} {1870}	2. 88	13.80	1887	0. 00	186
			July.					Augus	t.				Septemb	ю г .	
Name and number of station.	Aver age.			Minimum.		Aver- age.	Max	imum.	Min	mum.	Aver age.			Minímum.	
	Ins.	Ins.	Yrs.	Ine.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Γr
330, Aransas Canal† 331, Corpus Christi	1.77	3.97	1851	(T)	1885	2.14	5.48	1846	(T)	1885	8.23	10. 49	1846	4.96	18
332, { Ringgold Barracks	1. 51	5. 98	1878	0.00	{1871 1874 1881	2.94	11. 75	1870	0. 00	1884	3. 70	9. 35		0.00	187
333, Hidalgo	1.04	1.88	1880	0. 20	1879	6.88	7.52	1879	6. 23	1880	4.01	5. 49	1879	2. 38	188
334, { Fort Brown	2.05	7.58	1855	0.22	1885	3. 38	16. 58	1 8 80	0. 01	1850	7.14	30. 57	1883	0. 25	185
	tober.	ober.			ovembe	r.	1	Dece		ecember.			Year.		
Name and number of station. Aver. Maxin	oum. M	inimum.	Aven age.	- M97	imum.	Minimu		rer. Ma	ximum	Minim	1m. 1	dean.	Maximu	ım. Mi	nimum
Ins. Ins.	Yrs. 1	ns. Trs.	Ins.		. Tre.	Ins. I	rs. I	ns. In	s. Yrs.	Ins.	Trs.	Ins.	Ine. In	rs. Is	. Гri
30, Aransas Canal	1887 (T) 1885	1.79		5 1845	0.66 18	87 3.	65 5.0	07 1887	1.19 1	851	35. 47	•••••		• • • • • • •
(Ringgold Bar) 32, racks. (Rio Grande City)	1881 (T) 1886	0. 98	3 3 10	0 1872	0.00 18	79 1.	21 5.	60 1860	0. 00 {1		22. 01	32. 19 18	387 11	. 94 187
33, Hidalgo		. 59 1880	L 18		1881	0.00 18			70 1881	0. 04 1		25. 25	•••••	•••	· • • • • •
34, {Fort Brown } 4.60 16.27	1887 0	. 22 1876	2.03	7.47	7 1854	0. 10 18	69 1.	62 6.1	82 1877	0. 05 1	871 :	31. 03	60.80 18	855 8	. 88 187
····				-			· · · ·				· · · · ·				



WYOMING TERRITORY.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

			_	_		Record.							
No. Name of station.	County.	Lat- itude.	Lon- gitude.	Eleva- tion.	Length	From	_	To (inclu- sive)—		- Remarks as to observers and mis- ing records.			
35	Fort Sheridan	National Park	o / 44 58	0 / 109 51	Feet.	Yrs. M 0 2	 Dec., 1	886	Jan., 1	887	U. S. post hospital.		
36	Fort Washakie	Reservation. Fremont	42 01	108 56		9 0					Signal Service and U.S. post ho		
30		remont		108 56			July, 1		·		pital. Record much broken. De 1872, to May, 1873, inclusive; Ma 1878, to July, 1880, inclusive; Sep 1880; July, 1881; Jone, July, Oc Nov., Dec., 1883; Jan, 1884, Dec., 1885, inclusive.		
38	Fort McKinney	Johnson		108 44	1		Jan., 1	886	Jan., 1	887	U. S. post hospital. Do.		
39	Fort Bridger	Crook.† Uint a	41 28	110 30	6, 613	22 3	Dec., 1	859	Dec., 1	887	Signal Service and U. S. post ho pital. Record much broke Aug., 1860. to Dec., 1862, incl		
40	Fort Fred Steels	Carbon	41 43	106 55	6, 850	12 6	June, 1	869	July, 1	886	broken. Nov., Dec., 1869; Ma July, Nov., 1870; June, 187 Nov., 1875; July to Dec., 1876, i clusive: Mar., Mav. June, 187 Aug., Sept., 1880; Nov., 1880, Feb., 18-2 inclusive; May, 188		
11	Edson	do	41 42	106 41		2 8	Sept., 1	877	Apr., 1	880	to Feb., 1834, inclusive. Signal Service.		
12	Fort Fetterman	Albany	42 50	105 28			Nov., 1	888	Jan., 1	862	U. S. post hospital Record much broken. Dec., 1868, to Feb., 186 Dec., 1869; Feb., Mar., 187 Mar., 1872; July, Aug., 187		
43	Fort Laramie	Laramie	42 14	104 29	4, 519	22 10	Sept., 1	849	Dec., 1	887	Nov., 1875; June, 1877; Feb., 18 Signal Service and U. S. post hc pital Record much broke Dec., 1850, to Mar., 1851; Mar Apr., May, 1861; Oct., Nov., 186 Oct., Nov., 1864; Mar., Ap 1865; June, 1865, to Droc., 186 inclusive; Mar., Apr., May, 187 Sept., 1871, to Mar., 1872; incl sive; Aug., Nov., 1872; July, 187 Feb. to Jul., 1875; inclusive; Oc 1876; Feb., 1877; Apr., 1877;		
44	Fort Sanders		41 16	105 32	7, 180	95	Feb., 1	869	Aug., 1	878	Nov., 1885, inclusive ; Apr., Jun July, Aug., Sept., 1886, U.S. post hospital. Apr., June, 187		
45	Cheyenne		41 08	104 48	6, 105		Jan., 1	1			Signal Service and U. S. post he pital.		
46	Hat Creek	Laramie	42 05	104 20		2 6	Oct., 1	877	Sept., 1	880	Signal Service. Record much broke Sept., Oct., Nov., 1879; July, 188		
		Sweetwater.†		1		1	1	1			~~peri con rior, tore; outy, 100		

S. Ex. 91-13

† No data.

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97

WYOMING TERRITORY-Continued.

Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

				January	ÿ.		!]	Februa	ry.						
Name and number of	of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	mum.	Aver age.	Max	imum.	Minin	oum.
		Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yre
5, Fort Sheridan 6, Fort Washakie		7.70	2.34	1874	0.00	1878	0.36	1.04	1881	0. 10	1886	1. 02	2.05	1896	0.01	18
7, Fort Stambaugh .	• • • • • • • • • • • • • • • • • • •	1.10	1.53	1876	0.54	1878	0.43	0.77	1876	0.00	1887	1.65	4.79	1876	0.61	187
8, Fort McKinney		1.05	1.10	1887	1.00	1886	0.40		1070	···· ··	\$1860?	0.30				• • • • •
9, Fort Bridger 10, Fort Fred Steele		0.70 0.84	2.89 3.50	1881 1870	0.00	(¹) 1874	0.43	1.45	1873 1870	0.00	{1863 1877	0.79	4.50	1869 1875	0.00	186 188
1, Edson		0.51	0, 76	1880	0.07	1878	0.05	2.50	1878	(T)	1879	0. 92	1.07	1878	0.00	187
2, Fort Fetterman	• • • • • • • • • • • • • • • • • • •	0. 89	0. 54	{1873 {1877}	0.13	{1878} {1880}	0. 73	3.40	1873	0.12	1877	1.34	3. 42	1877	0.11	187
3, Fort Laramie	• • • • • • • • • • • • • • • •	0.72	4.24	1886	0.00	(')	0.87	4. 28	1886	0.00	{1859 {1865}	0.70	1.78	1853	0. 00	(י)
4, Fort Sanders		0.88 0.28	3.53 0.88	1875 1883	0.06 0.02	1870 1872	0. 61 0. 29	1.26 0.93	1878	0.00	1877	0.64	1.11	1876	0.13	187
15, Cheyenne 16, Hat Creek		0.02	0.04	1878		1879	0.04	0. 05	1870 1880	0.02	1873 1878	0. 63 0. 07	0.18	1884 1878	0.06 0.00	186 187
			April.	· · · · · · ·	-			May.					June.	<u></u>		
Name and number of	of station.	Aver- age.	Maxi	mum.	Mini	mum.	Aver- age.	Maxi	mum.	Mini	ասա.	Average.	Max	imum.	Minin	oum.
Thend She -1 3 1		Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yr
5, Fort Sheridan† 6, Fort Washakie		1.86	3.78	1883	0. 52	1882	2.26	5.01	1887	0.00	1875	0.61	2. 46	1886	0.00	\$187
7, Fort Stambaugh		1. 50	1. 85	1878	0.98	1882	2.20	5.01 3.65	1877	0.59	1875	0.01	0.32	1880	0.00	{18 18
8, Fort McKinney	••••••••••••						0.05					1. 55				
9, Fort Bridger		0.74	1.58	1882	0.00	1863	1.11	5.02	1863	0.06	1865	0.55	8. 25	1872	0.00	{18 {18
0, Fort Fred Steele 1. Edson		1.89	6.00 2.73	1870 1879	0.25	1877 1878	1.12	2.92	1884 1878	0.00	1886 1879	0.77	3.25	1870 187 8	0.00 0.75	18
2, Fort Fetterman		1.58	3.72	1878	0.00	1876	2. 51	6.04	1873	0.44	1869	1. 26	2. 58	1874	0.40	18
3, Fort Laramie	•••••	1. 32	4.75	1873	0. 0 6	{1863} {1876	2. 55	12. 19	1853	0.00	1865	1. 34	4. 95	1853	0.00	{18 {18
4, Fort Sanders		1. 13	3. 63	1870	0.10	1878	1.47	2. 80	1878	0. 15	1875	1.53	4.90	1878	0. 05	\$18 {18
5, Cheyenne	· · · · · · · · · · · · · · · · · · ·	1.38	3.76	1885	0, 17	1880	2.00	4.83	1884	0. 32	1886	1.46	3.67	1883	0. 07	18
6, Hat Creek	•••••	8.48	6, 93	1878	0.04	1878	2. 92	4.83	1878	1.00	1879	1.00	8.00	1880	0.00	{18 18
		<u></u>	<u>-</u> _	July.					Augus	t.		<u> </u>		Septemb	er.	
Name and number	of station.	A ver-			Minimum.		Aver-			Minimum.		Aver- age.		imum.	Minin	num.
		Ins.	Ins.	Frs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Yrs.	Ins.	Ins.	Yrs.	Ins.	Tra
35, Fort Sheridan† 36. Fort Washakie		0.69	2.50	1875	0. 05	1877	0. 87	1.15	1875	0.00	(¹)	0.51	1.24	1877	0.00	18
7. Fort Stambaugh		0.58	1. 15	1875	0. 16	1877	0.38	0.67	1876	0.08	1874	0.66	1.00	1874	0.51	18
8, Fort McKinney 19, Fort Bridger		0.57	1.80	1860	0.12	1886	0.90	2.57	1869	0.06	1871	0.79	5.05	1865	0.00	18
0, Fort Fred Steele		0.68	2.01	1869 1878	0.08 0.10	1877 1879	0.94	3.35 0.62	1869 1878	0.05 0.17	1877 1879	0.73	1.88	1878 1878	0.00 (T)	18 18
2, Fort Fetterman	•• •••••	1.75	4.70	1881	0.77	1880	0.96	2.46	1870	0.12	1879	1.14	4.20	1881	0.00	(¹
3, Fort Laramie		1.49	4.15	1856	0.02	1876	1.21	2, 93	1855	0. 0 0	1860	0.96	3. 39	1855	0.00	{18 {18
H, Fort Sanders		1.82	3.07	1874	0.27	1869	1.66	4.90	1878	0.00	1871	0.99	1.91	1877	0.40	18 518
15, Cheyenne 16, Hat Creek		1.64	3.90 1.50	1872 1678	0.30		1. 46	2.50 3.65	1878 1880	0.07	1870 1879	0.98	2.02	1877 1878	0.00	{18 18
		tober.	1.00	1010		ovembe		, 3. 00)ecemb	z		2. 20	 Yea		10
Name and number of station.	Aver. Marin		linimu	n. Ave	r. Max	imum.		1m. Av					dean.	Maximu		imu
				· ·						. Ггз .					'	
5, Fort Sheridan t	Ins. Ins.	. ¹	ns. Yr	<u>.</u>		Yrs.	Ins. I	••• •••	••••	·······			Ins.	Ins. Y	rs. Ins	
6, Fort Washakie	0. 01 2. 18 1	874 0	0. 00{187 187	5(0.6) 6(0.6)	1 2. 2 9	1886	0.07 18	82 0.	23 0.6	0 1874	0.00 1	875	10. 14	14.74 18	86 3.3	4 18
7, Fort Stambaugh	0.78 1.49 1	874 0	0. 00 187	50.81		1875	0.54 18			2 1877	0.21 1	1 874 1 :		12. 34 18	76 9.9	8 18
8, Fort McKinney 9, Fort Bridger	1.80 0 54 1.30 1	88% 0	. 01 186	0.45 7 0.68		1871	0. 04 {18 18		15 70 4.1	3 1×59	0.12 1	860	9.60 . 8.50	13. 26 18	69 5 0	 5 18
	1.23 2.75 1	1	. 14 188	- 11		1871	0. 10 18	845 0. 73 0.		4 1871	0. 12 1	1		23.45 18		
	1.35 1.45 1	877 1	. 16 187	8 0.22	8 0.45	6 1879	0.08 18	77 0.	93 1.4	9 1879	0.14 1	877	1.31	14.15 18	78 8.0	0 18
	1.18 2.88 1	871 I O	. 00 187				0.05 18	74 . 1.	37 6. 0	2 1872	0.05 1			30.81 18	IAL (9.2	
3, Fort Laramie	0.90 2.72 1		. 00 186	0 0.48	3 3.23		0.00 ('		84 4.8	5 1855	0.00 1	.874 . 1	13.38	81.42 18	52 . 2. 3	8 18
2, Fort Fetterman 3, Fort Laramie 4, Fort Sanders		849 0 877 0		0 0.78	3 2. 27	1876	י) 0.00 (י 18 0.00 א 18 0.00 18	70 0,	53 1.0		0.03 1	869	12.92	81.42 18 17.77 18 19.24 18	72 8.1	6 18



INDIAN TERRITORY.

Geographical arrangement of stations, giving their latitude, longitude, elevation, name of observer and length of record.

							Record.					
No.	o. Name of station.	n. Reservation.			on- ade.	Eleva- tion.	Len	gth.	. From-		To (inclu- sive)—	- Remarks as to observers and miss- ing records.
147	Fort Supply	Unknown Nation .	° 36 3		, 27	Feet. 1, 901	Yrs.	<u>М</u> . 6	July, 18	73	Dec., 1887	Signal Service and U. S. post hospital Record much broken. Sept., 1874 June to Dec., inclusive, 1876; year 1877, 1878, 1879, 1880; Sept. to Dec inclusive; year 1884.
H 8	Fort Gibson	Kansaa.† Oaage.† Cherokee	35 5	0 95	5 21	510	30	2	July, 183	36	Dec., 1886	
		Peorias.t Quapaws.t Ottawas.t Shawnees.t Nes Percés.t W yandotte.t Poncas.t Senecas.t Pawnees.t Otoes and Mis- sourias.t										
49	Cantonment	Cheyennes and Arapahoes.	36 0	3 98	33		0	10	Feb., 188	64	Nov., 1884	Signal Service.
50	Fort Reno	Oklahoma.† Oklahoma.† Creek.† Sac and Fox.‡ Iowas.† Wichitas.† Kickapoos.†	85 34	1 96	23		4	11	Jan., 188	83	Dec., 1887	Signal Service. Nov., 1884.
51	Fort Towson	Pottawatomies.† Choctaw Seminoles.†	34 0	95	83	300	13	9	June, 18	36	Apr., 1854	U. S. post hospital. Record much broken. July, 1841; from Apr. to Dec., inclusive, 1846; years 1844; and 1848; from Jan. to May, inclu sive, 1849; July and Dec., 1851 from Jan. to Sept., inclusive, 1852
52	Fort Arbuckle	Chickaeaw	34 2	7 97	09	1, 000	10	10	Oct., 18	50	Aug., 1870	U. S. post hospital. Record much broken. From Feb. to Nov., in clusive, 1859; years from 1860 tt 1866, inclusive; from Jan. to May inclusive, 1867; Oct. to Dec., inclu sive, 1867; from May to Nov., in clusive, 1868.
153 164	Fort Washita	do Kiowas, Coman-	34 1 34 4		3 38 3 23			1	Aug., 18		Dec., 1859	U. S. post hospital. Record much broken. From Feb. to Nov., in clusive, 1858; Jan., from June to Oct., inclusive, 1859.
AU1	гон ош	ches and Apa- ches.	оњ 4	v 94	5 ZJ	1, 190	10	11	Apr., 18		Dec., 1887	Signal Service and U.S. post hospital Record much broken. Aug., from Oct. to Dec., inclusive, 1883; from Jan. 'to June, inclusive, 1884.

• No data.



INDIAN TERRITORY-Continued.

				Ja	nuary	.		February.						March.						
Name and number of	f station.		Aver age.	Maxim	um.	Mini	mum.	Aver- age.	м	aximum.	Minit	num.	Ave		ximum.	Min	imum.			
647, Fort Supply 648, Fort Gibson			<i>Ins.</i> 0.65 2.08	Ins. 2.15 7.40	Yrs . 1876 1843	<i>Ins.</i> 0. 4 0 0. 10	Yrs. 1887 1847	Ins. 0.95 2.28	In. 3.0	6 1874	Ins. 0.02 0.20	Yrs. 1887 (1838) (1848)	Ins 1. 52 2. 52	2 7.62	Yrs . 1876 1854	Ins. 0.01 0.30	Yrs. 1887 1842			
649, Cantonment 650, Fort Reno 651, Fort Towson 652, Fort Arbuckle 653, Fort Washita 654, Fort Sill			0. 32 3. 13 0. 71 1. 69 0. 83	1.08 7.10 2.16 4.40 2.73	1886 1838 1869 1846 1879	0.00 1.00 0.01 0.01 0.00	1883 1837 1859 1854 (1871) (1887)	0. 72 0. 99 2. 92 2. 35 2. 78 1. 43	1. 8 11. 0 5. 4 5. 7 3. 4	0 1883 9 1851 0 1851 0 1851	0. 37 0. 20 0. 30 0. 34 0. 18	218485 1885 1841 1868 1855 1872	0.90 1.40 4.67 1.80 2.61 1.55	3 0 2.20 7 7.40 0 4.53 1 5.53	1885 1842 1868 1854	0.59 1.60 0.20 0.13 0.03	1887 1836 1851 1853 1853			
				<u> </u>	April.					Мау					June.					
Name and number o	of stati	on.	Aver age.	Aver. age. Maximum.		Min	imum.	A ver- age.			Mini	mum. Av			ximum.	Minimum.				
647, Fort Supply 648, Fort Gibson 649, Cantonnent 650, Fort Reno 651, Fort Towson 652, Fort Arbuckle 653, Fort Washite			Ins. 3.35 4.25 2.56 2.48 5.28 3.16 3.40 2.35	4.03 13.60 6.89 7.91	Yrs. 1885 1840 1884 1840 1870 1848 1879	<i>Ins.</i> 0. 99 0. 50 1. 00 1. 60 1. 04 0. 44 0. 77	Yrs. 1876 1851 1883 1839 1853 1857 1871	Ins. 4.21 4.49 6.95 4.71 5.84 4.55 5.31 4.71	In 7. 8 10. 1 9. 8 9. 2 7. 3 14. 6 9. 7	4 1883 3 1840 4 1885 6 1843 6 1852 1 1849	<i>Ins.</i> 0. 10 0. 37 0. 35 2. 04 0. 46 1. 97 0. 00	Yrs. 1886 1850 1850 1870 1848 1870	Ins 3.5 4.1 2.9 6.0 5.8 4.0 4.3 4.3	5 5.44 3 9.17 6 3 9.41 0 17.50 4 5.31 8 10.23	1885 1849 1885 1839 1867 1846	<i>Ins.</i> 0.40 0.00 4.64 0.70 1.53 0.31 0.21	Yrs 1874 1857 1888 1888 1888 1884 1844			
			July.						Angust.						September.					
Name and number	of stat	ion.	Aver age.	Maxin	am. Minimum.			Aver-			Mini	mum.	Ave age			Minimum.				
647, Fort Supply			Ins. 4.53 2.97 1.44 2.28 4.62 4.30 3.24 3.06	3.74 10.76 8.64 13.40	Yrs. 1881 1875 1883 1849 1869 1869 1849 1875	<i>Ins.</i> 1. 20 0. 21 0. 88 0. 00 0. 00 0. 10 0. 19	Yrs. 1874 1854 1886 1845 1854 1854 1851 1871	Ins. 1.64 2.69 4.24 2.61 4.03 3.98 2.86 2.96	In 5.1 8. 7.1 10. 5.1 7.1	12 1883 18 1843 74 1885 96 1844 77 1856 35 1847	0.00 0.40 0.49 1.16 9.35	Yrs. 1874 1848 1853 1853 1851 1848 1874	Inu 2.5 2.5 2.8 3.3 3.4 3.3 3.5 8.0	4 4.28 6 8.04 0 5 4.78 1 6.50 5 8.93 5 9.60	1873 1836 1884 1841 1841 1859 1846	Ins. 0. 86 0. 35 1. 27 0. 01 0. 57 0. 60 0. 30	Yrs 188 184 189 185 185 185 185			
654, Fort Sill			tober.		1070		ovembe				Decemb				- 1870 Теа	1				
Name and number of station.	Aver- age.	Maxim	um.	Minimum	A ve age		imum.	Minim	am.	A ver- age. Ma	ximum.	Minim	um.	Mean.	Maximu	120. M	inimum			
647, Fort Supply 648, Fort Gibson 649, Cantonment 650, Fort Reno 651, Fort Towson 652, Fort Arbuckle 653, Fort Washita	<i>Ins.</i> 1, 06 3, 55 1, 94 3, 73 4, 59 2, 62 2, 94	Ins. 2.551 9.351 5.711 9.901 7.161 5.951	882 851 887 841 852	Ins. Yrs. 0.00 1873 0.52 1837 1.31 1885 1.13 1851 0.55 1854 0.41 1847	<i>In4</i> 1.0 2.9 1.9 0.4 4.1 2.8 3.6	1 3.3 2 8.1 5 1.4 0 9.3 7 5.4	5 1884 7 1843 0 1874 5 1841	<i>Ins.</i> F 0. 12 14 0. 35 14 0. 08 14 1. 19 14 1. 05 14 0. 80 14	86 878 886 845 859	0.95 3. 2.16 7. 0.15 3. 2.84 8. 1.98 5.	13. Yrs. 19 1885 70 1851 57 1884 30 1841 76 1855 75 1850	Ins. 2 0.01 1 0.03 1 0.04 1 0.77 1 0.12 1 0.17 1	886 845 886 852 852	<i>Ins.</i> 25. 96 36. 60 28. 50 51. 23 35. 71 38. 15	Ins. Y 37.66 18 55.82 18 39.49 18 73.36 18 47.49 18 64.49 18	85 1 40 1 84 1 84 1 82 3 857 2	ns. Yrs 3. 20 188 3. 84 183 5. 51 188 4. 40 183 2. 24 185 1. 81 185			

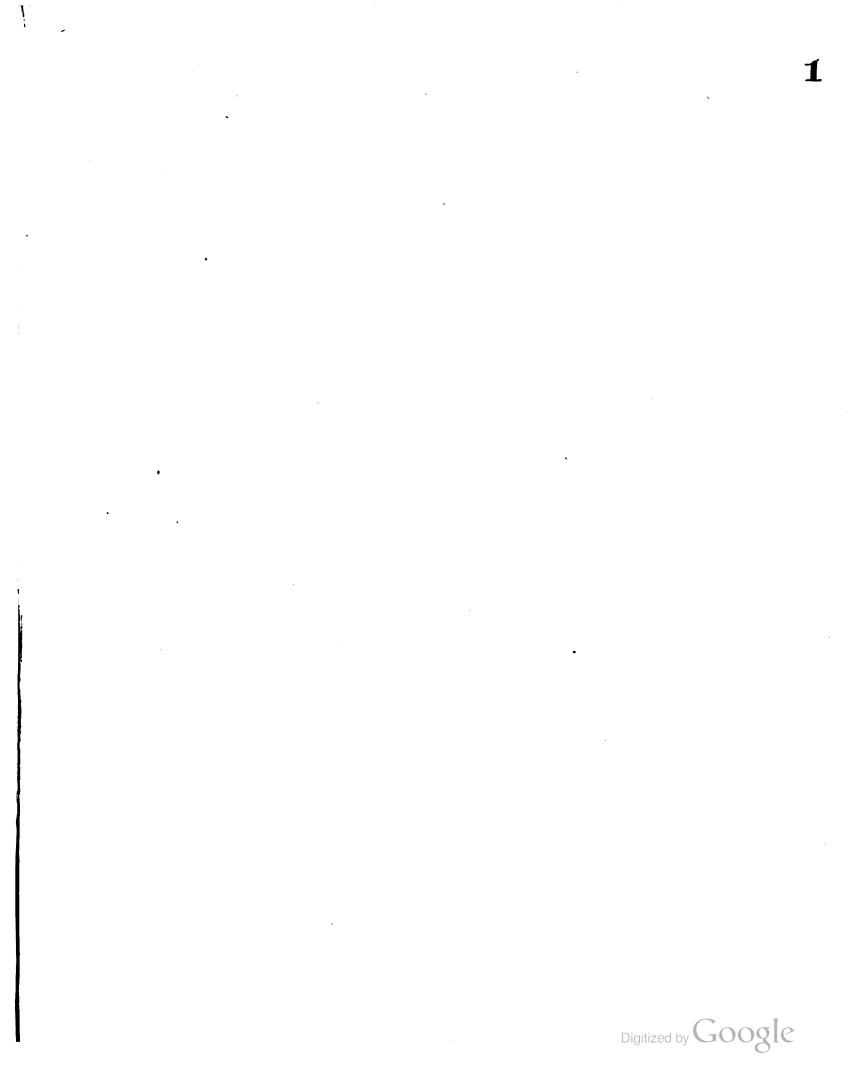
Rain-fall in inches, showing the greatest, least, and average values for each month and for the year.

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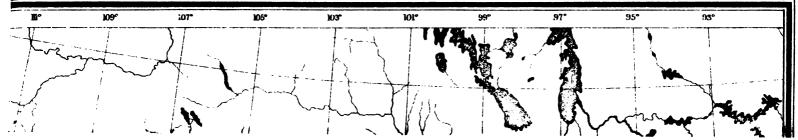
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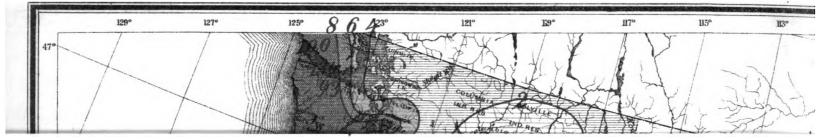
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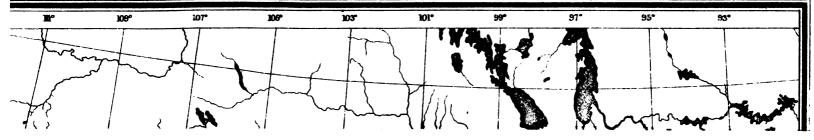
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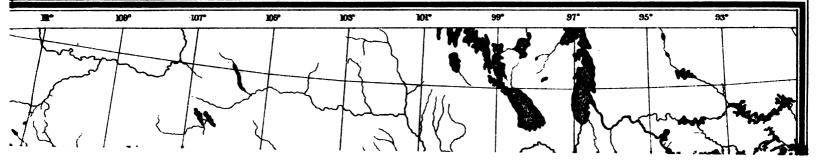
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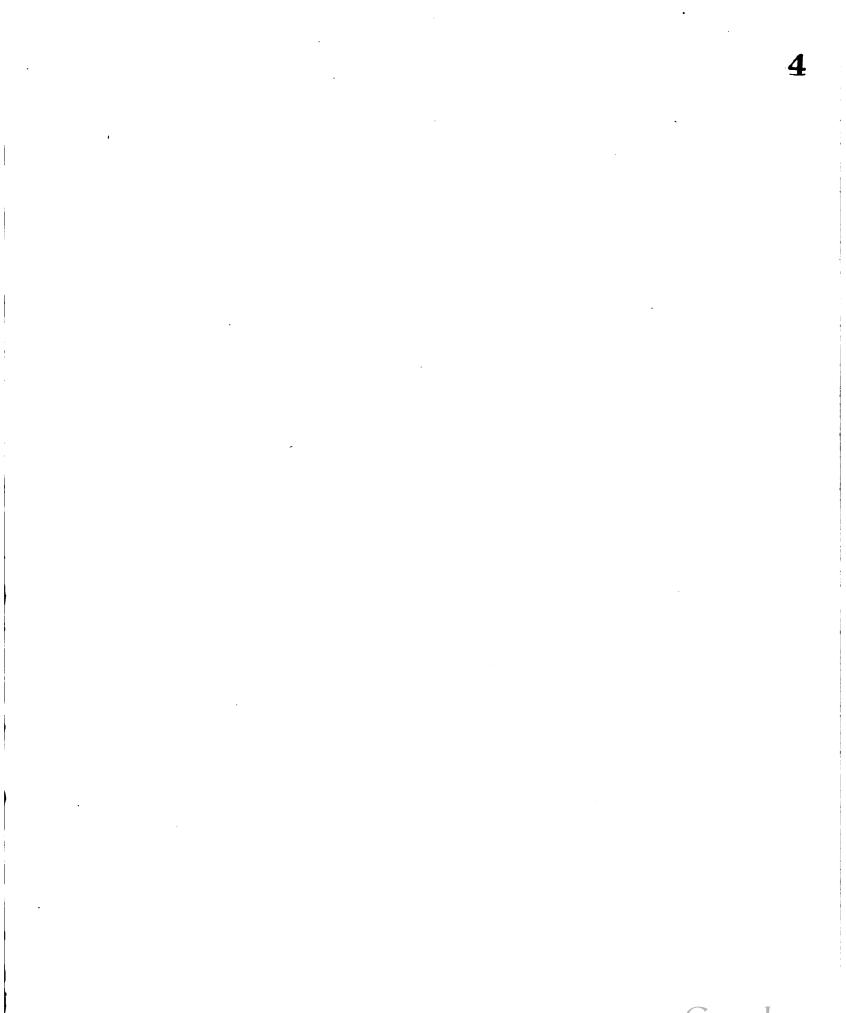
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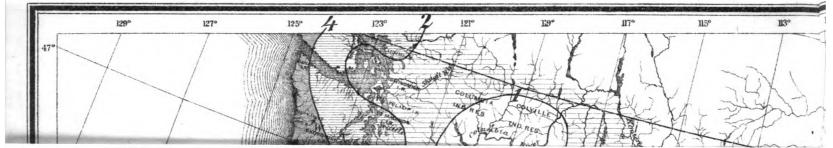




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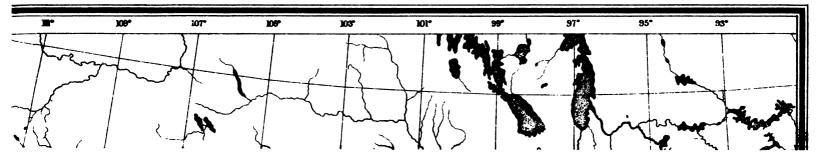


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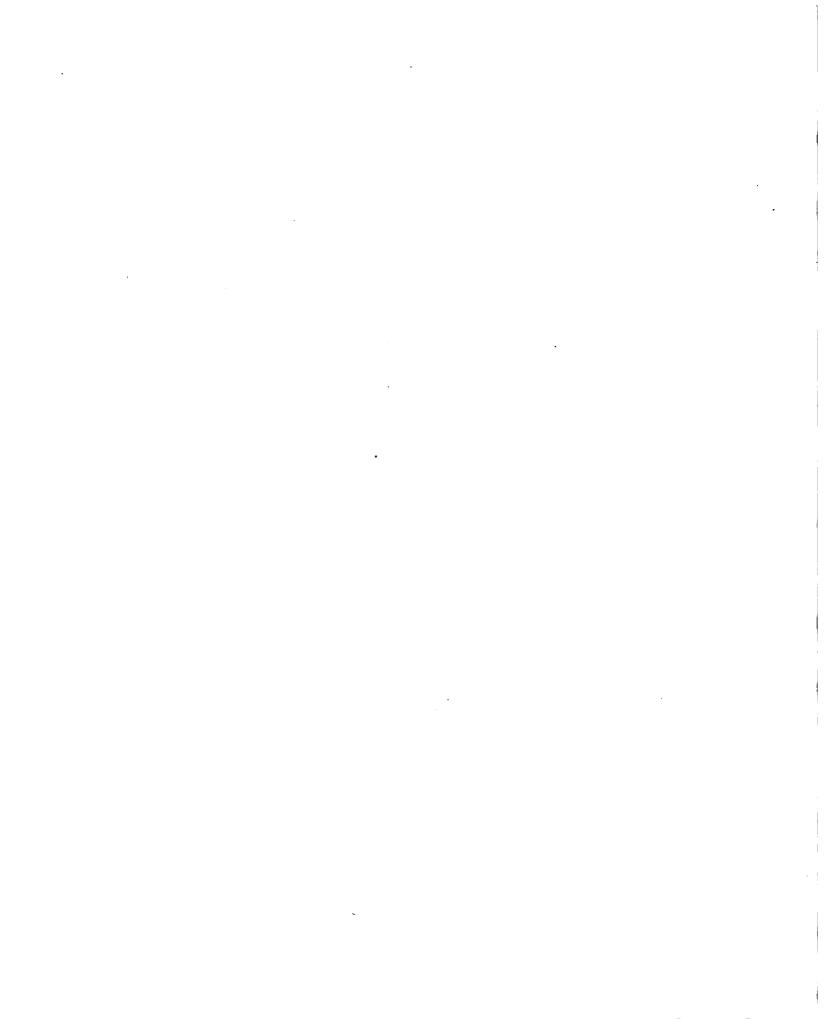


RAINFALL, APRIL.



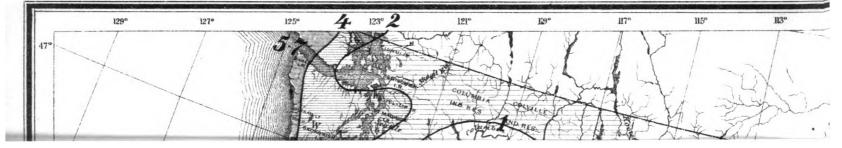
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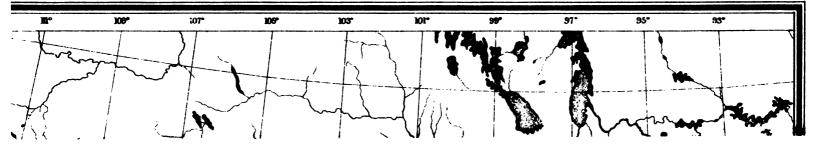


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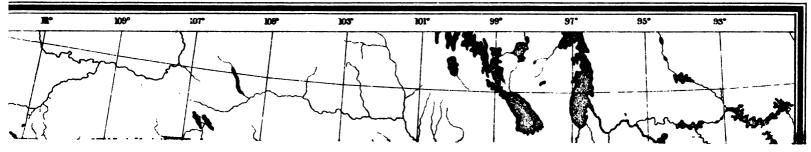
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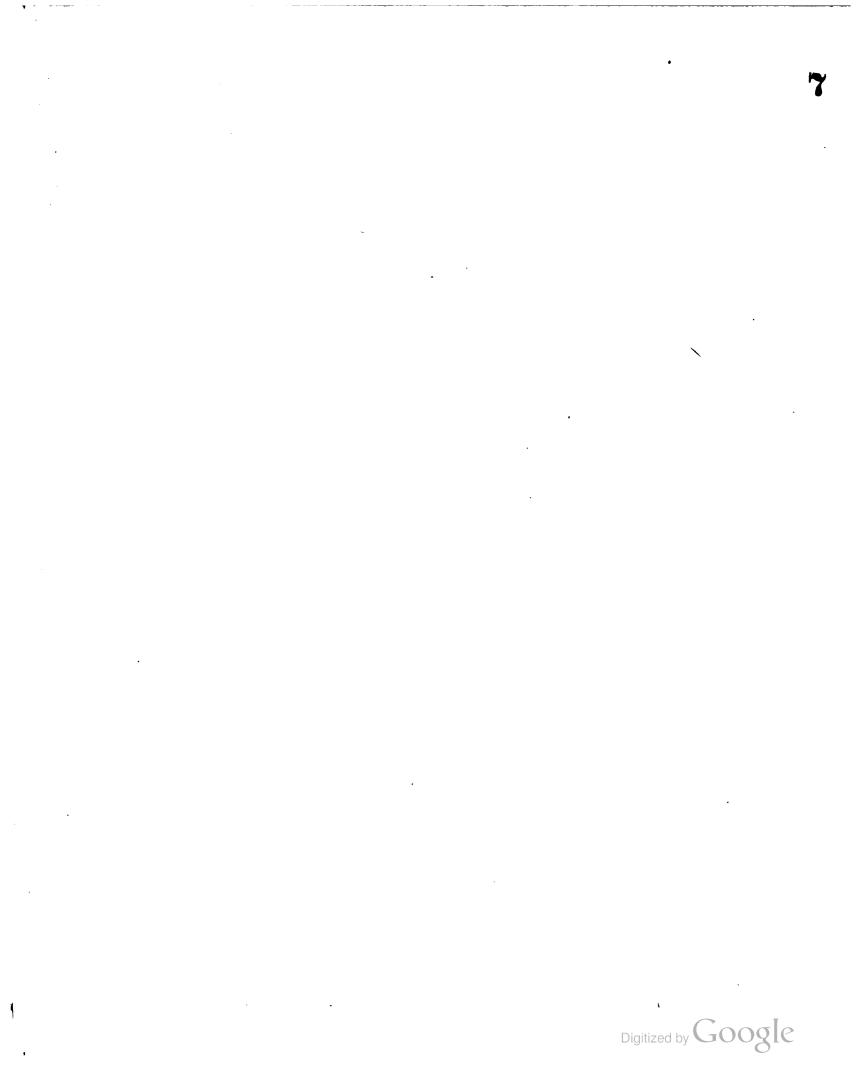


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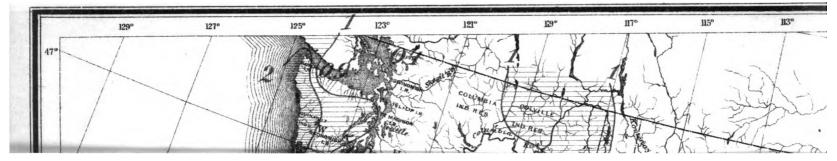
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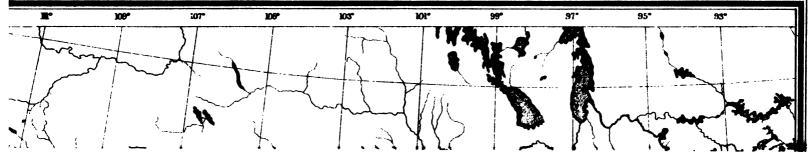
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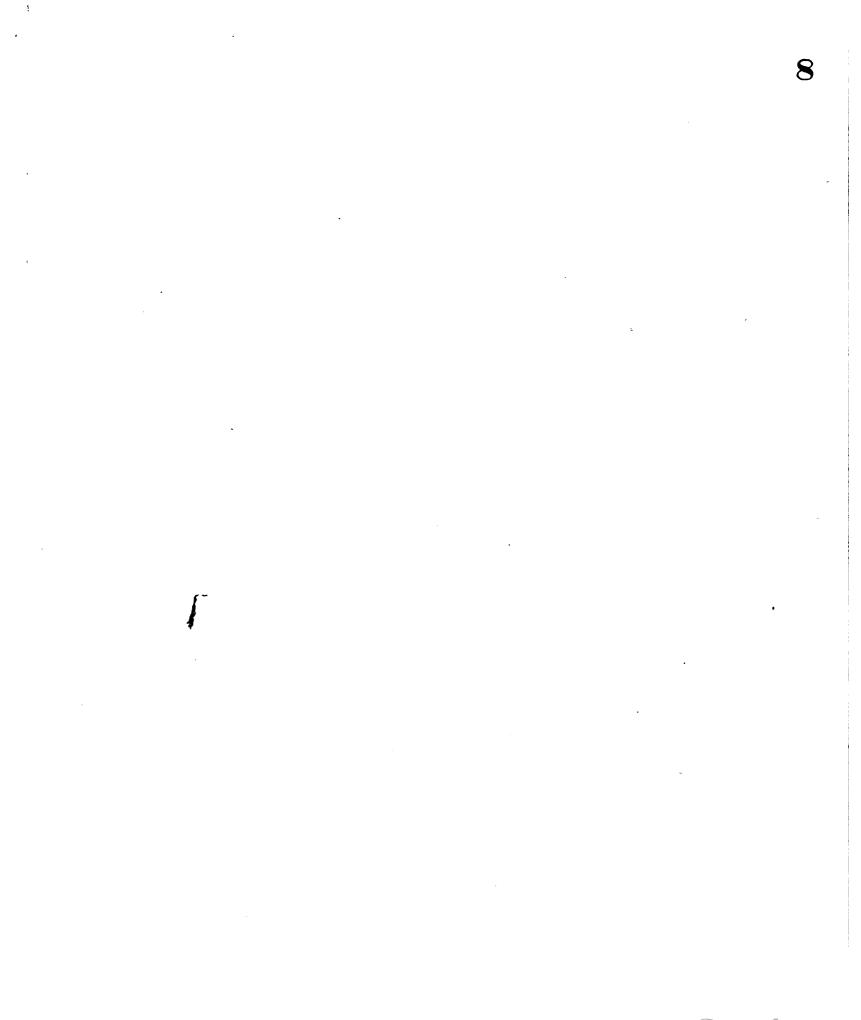
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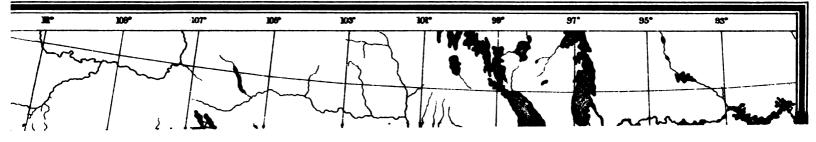
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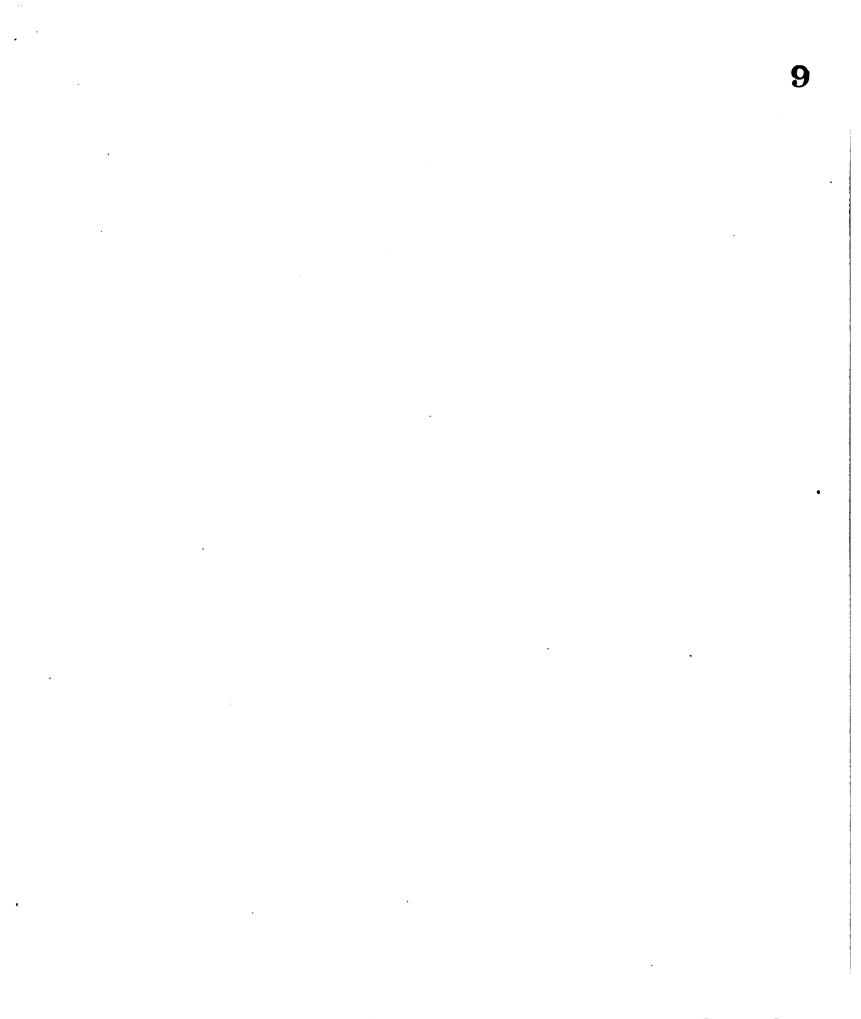


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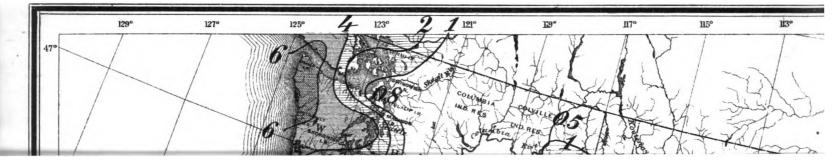
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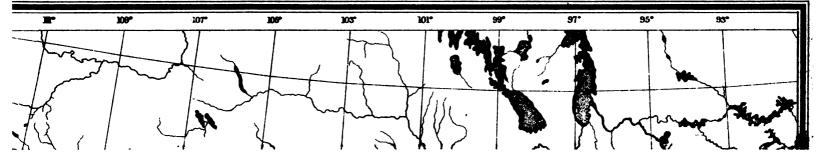


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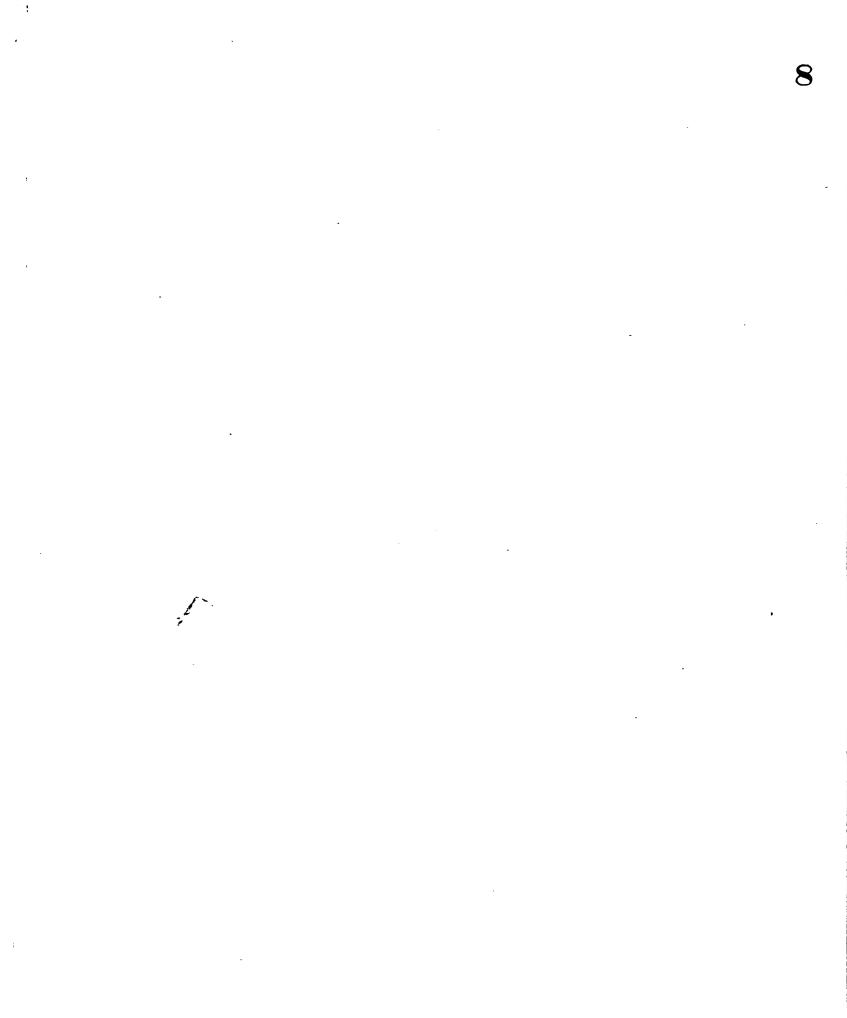
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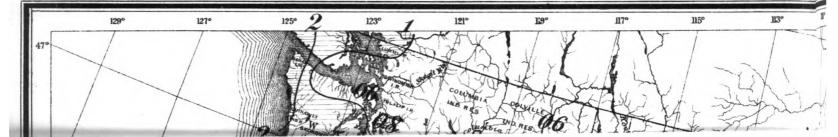
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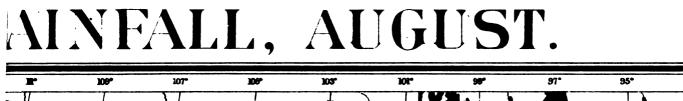
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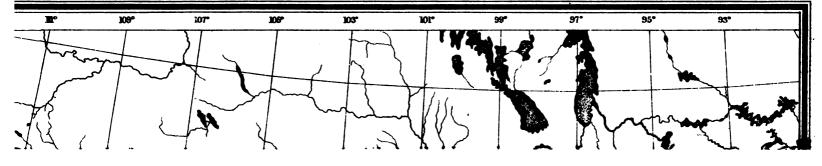
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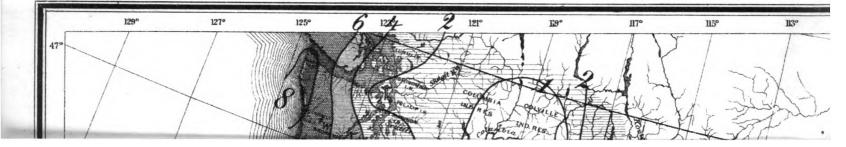
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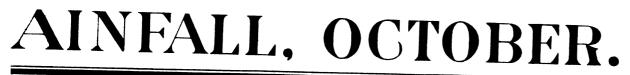


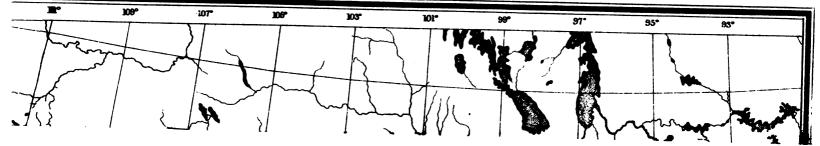
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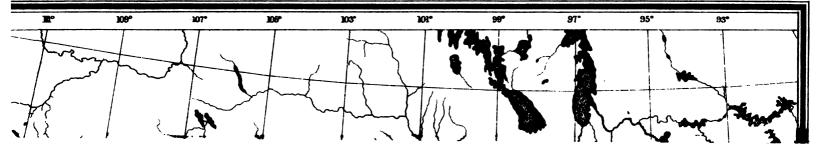
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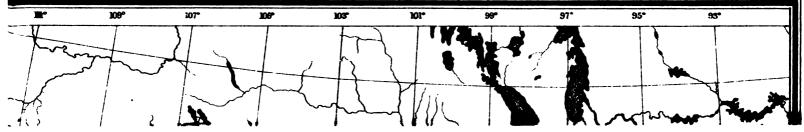
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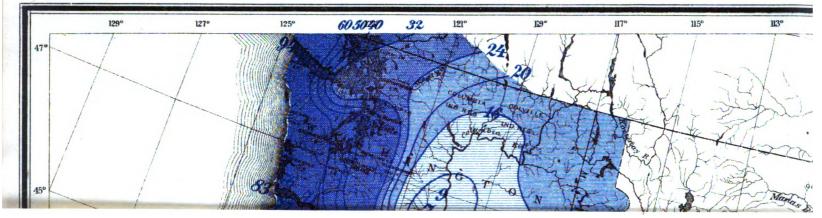
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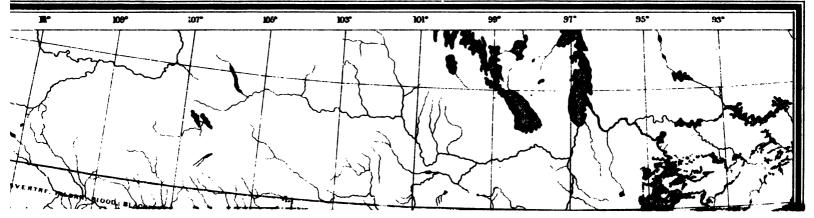
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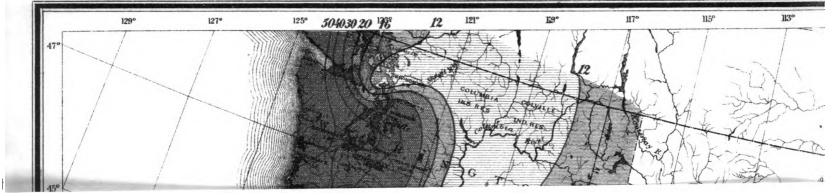
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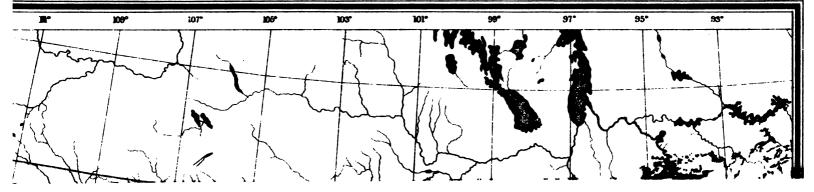


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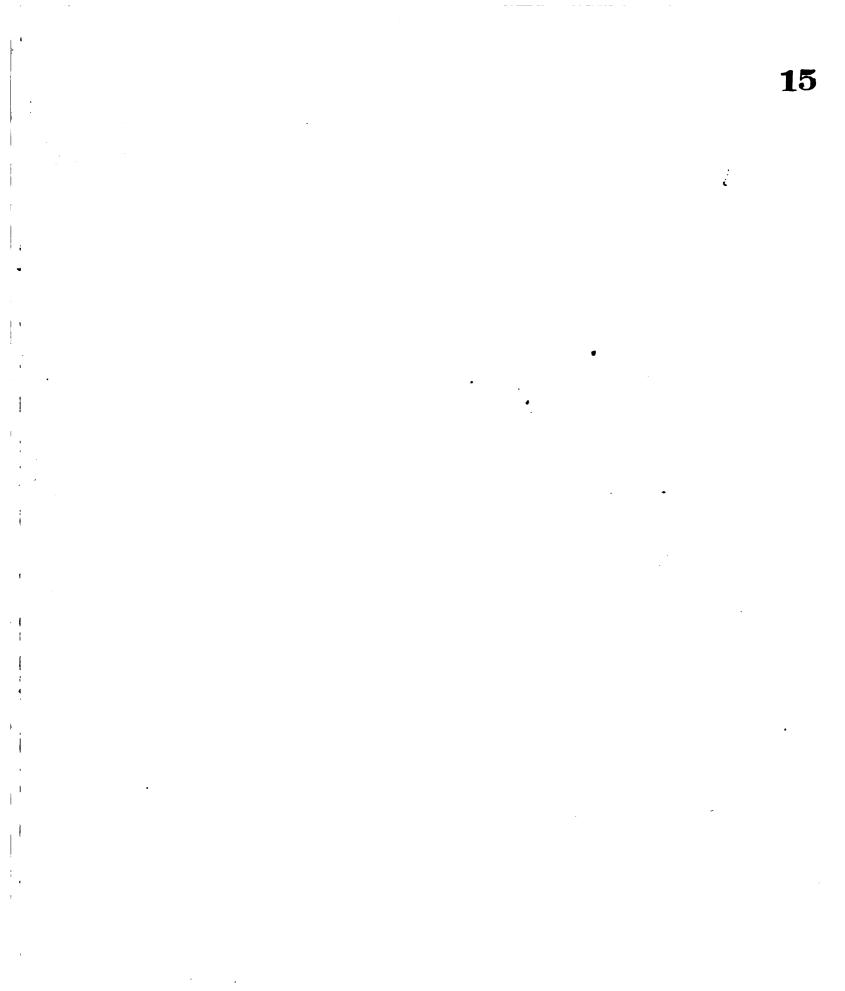


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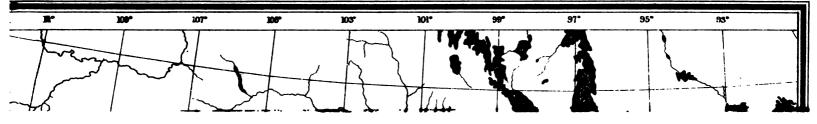


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